

# ReliaTech

2014/2015

*Catalog*

*(updated: 12.09.2014)*



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## Welcome@ReliaTech!

Dear Customer

hopefully all of you have come alive and kicking into the new year 2014.

Again ReliaTech has added several new products into our portfolio in 2013. One of it is **human VEGF<sub>206</sub>** (*Vascular Endothelial Growth Factor 206*) which is the largest isoform of the human VEGF-A family. To our knowledge it is the first time that this isoform is commercially available. VEGF<sub>206</sub> induces the proliferation of human umbilical vein as well as of human dermal lymphatic endothelial cells. However so far little is known about the biological activities of this isoform in vivo.

ReliaTech also has generated some more exotic proteins and the corresponding antibodies like **human PRAME** (*Melanoma antigen preferentially expressed in tumors*) which according to its expression profile defines it as a cancer-testis antigen. Cancer-testis antigens (CTAs) are encoded by non-mutated genes expressed at high levels in germinal tissues and tumors, but which are absent from or detected at low levels in other tissues. Another one is **bovine SRY** (*Sex-determining region Y protein*) which is beside other genes used for the determination of the sex in human as well as other mammals.

In addition we have started to establish the protocols for conjugation of polyclonal and monoclonal antibodies with (in a first approach) FITC and PE. Targets are e.g. human Podoplanin, human TIE-2, human LYVE-1 and mouse CD105. The antibodies are suitable for FACS analysis.

And last but not least we of course plan also for 2014 a bunch of exciting offers and product releases making it worth to keep in contact with us.

Having written this I wish you much pleasure browsing our catalog and the new product offers. We will be happy to be your competent and customer-friendly partner for reliable reagent supply for another year!

Sincerely yours,



Dr. Bernhard Barleon  
Managing director, ReliaTech

## Our services at a glance

### Proteins “*made in Wolfenbüttele*”

**You are looking for high quality reagents at reasonable prices for your research projects?**

- We provide an excellent lineup of biologically functional proteins, of antibodies and ELISA systems.  
As one of only a few companies in Germany we produce many of our reagents in-house. Benefit from this profound knowledge and talk to an expert for reagent specific support!

### Proteins “*à la carte*”

**Your protein of interest is needed urgently but you don't have time to establish the necessary production systems?**

- We produce it for you! Use our profound expertise in protein expression and purification to produce your protein of interest. Choose which expression system you prefer!

### Detection reagents for your protein of interest fail or are not commercially available?

- Tailor your own! We provide all means to produce your own high-quality antibodies. You decide where to step in!

***For further information browse this catalogue or contact us!***

## Ordering Information

(for detailed General Terms and Conditions see also page 125)

### Domestic and international orders

Fax +49 (0)5331-8586 989  
Email [orders@reliatech.de](mailto:orders@reliatech.de)  
Internet [www.reliatech.de](http://www.reliatech.de)

### Scientific support

Phone +49 (0)5331-8586 987  
Fax +49 (0)5331-8586 989  
Email [info@reliatech.de](mailto:info@reliatech.de)  
Internet [www.reliatech.de](http://www.reliatech.de)

### Prices and payment terms

All prices are subject to change without notice. Payment terms are 14 days 2% or net 30 days. We do not accept credit cards.

### Bulk orders

Bulk discounts for our products are available. Please contact us.

### Vial sizes

A great variety of vial sizes is available including custom packaging. Please contact us.

### When ordering, please specify

- Name of institution
- Delivery address
- Invoice address
- VAT/Tax number
- Product code (Catalog number)
- Quantity and package size of each product

Orders can be placed by fax, mail, email or online on our web site.

### Product information

All data sheets are for down loading as PDF on our web site [www.reliatech.de](http://www.reliatech.de). These sheets include instructions for reconstitution, specific activity, stability, storage and use.

### Products use and liability

All our products are sold for research or laboratory use only and are not to be administrated to humans or use for medical diagnostics. ReliaTech GmbH is not responsible for patent infringements which may occur with the use of these products.

All products of ReliaTech GmbH are warranted and meet or exceed the specifications that are reported in the respective data sheet, when used under normal conditions. Should any product fail to perform as warranted, upon notification, ReliaTech GmbH shall promptly replace it, free of charge. ReliaTech GmbH will not be liable for any loss, bad quality and inactivity of the products which might result from the storage, handling or use by the customer.

## Baculovirus Expression Service

The Baculovirus-insect cell expression system is widely used for the production of precisely matured, folded and processed recombinant proteins. In contrast to a prokaryotic expression system like *E. coli*, lepidopteran insect cells are able to glycosylate the proteins although the glycosylation pattern is not identical to that of mammalian cells (e.g. paucimannosidic *N*-glycans instead of complex-type *N*-glycans). This unique tool usually yields high amounts of recombinant protein, making it highly cost effective in comparison to other eukaryotic expression systems.

ReliaTech offers a variety of custom services for gene expression in insect cells. This “Baculovirus Expression Service” is divided into a series of steps from gene cloning into a Baculovirus transfer vector to recombinant Baculovirus construction, high titer recombinant Baculovirus production, bulk production of recombinant protein as well as protein purification. All of these steps can be performed either individually or in combination thus allowing you to arrange our support to your project according to your requirements. All cultivation steps are performed in serum-free medium to maximize safety and to yield a higher purity of the recombinant protein. You will receive progress reports at the end of each step and then be asked to authorize us to proceed to the next step. For detailed information to each step please visit our web site [www.reliatech.de](http://www.reliatech.de).

### Services

- A) Gene cloning into a Baculovirus transfer vector
- B) Production of a recombinant Baculovirus
- C) High titer stock production of a recombinant Baculovirus
- D) Time course assay of protein production
- E) Large-scale production of proteins from recombinant Baculovirus
- F) Recombinant protein purification

**Please call or contact us by email to discuss further details.**

## ***E. coli* Expression Service**

ReliaTech offers a variety of custom services for gene expression in *E. coli*. This “*E. coli* Expression Service” is divided into a series of steps which can be performed either individually or in combination so that customers can select the steps they actually need. These services are designed to cover most of your requirements, from gene cloning into an *E. coli* expression vector, screening for the best vector and/or *E. coli* strain, production of biomass, as well as protein purification. Along with the regular project updates, you will receive progress reports at the end of each step of the program. You will then be asked to authorize us to proceed to the next step. For detailed information to each step, please visit our web site [www.reliatech.de](http://www.reliatech.de).

### **Services**

- A) Gene cloning into an *E. coli* expression vector
- B) Generation of a recombinant *E. coli* strain
- C) Optimisation of the conditions for recombinant protein production
- D) Generation of biomass
- F) Recombinant protein purification

**Please call or contact us by email to discuss further details!**

## Purification of Recombinant Proteins and Antibodies

The purification of a recombinant protein is the most complex step in the whole cascade. While the cloning of a gene into a transfer vector is often highly dependent on the cDNA fragment size, the purification depends on the biochemical characteristics of the individual protein (e.g. amino acid composition, IP value, glycosylation, stability). In addition, the type of protein (e.g. secreted protein, cytoplasmic protein, membrane-bound protein, mono- or dimeric protein) also plays a very important role in the purification procedure.

The addition of a “tag” to a protein either at the N- or C-terminus enables, at the first approach the purification or at least enrichment of the protein using standard purification protocols (e.g. Protein A or G Sepharose for the Fc-tag). Furthermore, if there are no specific antibodies available one can use commercially available “tag”-specific antibodies for protein detection as well as for the monitoring of all the purification steps. Please contact our technical staff for more details.

As a customer service ReliaTech offers the purification of recombinant proteins either produced in insect cells, *E. coli* or mammalian cells. In addition ReliaTech offers the purification of polyclonal or monoclonal antibodies following well established protocols (e.g. antibodies and Fc-tagged proteins via Protein-A or Protein-G sepharose, His-tagged proteins via chelating columns [e.g. Ni<sup>2+</sup>, Co<sup>2+</sup> or Cu<sup>2+</sup>]). Proteins without a tag will be purified either by already existing protocols or we will try to establish a purification protocol.

**Please call or contact us by email to discuss further details!**



## Special Protein Preparations

“Special Protein Preparations” provide the possibility to obtain the desired recombinant protein in a customized form e.g. in a formulation and/or a vial size already adjusted to the experimental requirements.

For some experimental settings it is absolutely necessary to have a certain compound in a special formulation, e.g. a recombinant protein used in an iodination reaction should be without a carrier protein like HSA or BSA. Or in addition, it is sometimes more favourable to get the recombinant protein without a carrier protein in a vial size sufficient for one injection in the case of an animal model.

For pre-clinical experiments or animal testing ReliaTech offers different vial sizes and products stabilized in the presence of different carrier proteins (e.g. bovine serum albumin, mouse or rat serum albumin) in liquid or lyophilized formulations. Because this service is not available for all of our products, please contact us for further information.


**Please call or contact us by email to discuss further details!**



## Our reagents:

**Cytokines, growth factors, soluble receptors, ELISAs, antibodies**

Alphabetical Listing

 Premium products, all produced by ReliaTech!

### Legend

E	ELISA
WB	Western Blot
IHC	Immunohistochemistry
IP	Immuno precipitation
N	Neutralization
FC	FACS analysis
IF	Immuno fluorescence



**Anti-human ABCG-2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human ABCG-2	101-M150	Mouse	IHC	100µg

**Anti-human ACE***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human ACE (#12J16)	101-M200	Mouse	WB	100µg

**Anti-human ACE-2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human ACE-2 (#11A31)	101-M201	Mouse	WB, IHC(P)	100µg

**Activin-A**

Product	Catalog#	Source	MW	Size
Human Activin-A	100-310S	Insect cells	26.0 kDa	2µg
Human Activin-A	100-310	Insect cells	26.0 kDa	10µg
Human Activin-A	PNb-001	Nicotiana benth.	27.4 kDa	5µg
Human Activin-A	PNb-002	Nicotiana benth.	27.4 kDa	10µg
Human Activin-A	PNb-011	Nicotiana benth.	27.4 kDa	50µg
Human Activin-A (inactive)	PNb-002-I	Nicotiana benth.	27.4 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by its ability to inhibit the proliferation of mouse MPC-11 cells is < 2 ng/ml [ $> 5 \times 10^5$  units/mg].

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Activin-A(#7L18)	101-M202	Mouse	WB, N	100µg

**Activin-AB protein**

Product	Catalog#	Source	MW	Size
Human Activin-AB protein	PNb-037S	Nicotiana benth.	27.7 kDa	10µg
Human Activin-AB protein	PNb-037	Nicotiana benth.	27.7 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> as determined by its ability to inhibit the proliferation of mouse MPC-11 cells is < 5 ng/ml.

**Activin-B**

Product	Catalog#	Source	MW	Size
Human Activin-B	100-330S	Insect cells	25.6 kDa	1µg
Human Activin-B	100-330	Insect cells	25.6 kDa	5µg
Human Activin-B	PNb-014	Nicotiana benth.	14.6 kDa	10µg
Human Activin-B	PNb-015	Nicotiana benth.	14.6 kDa	25µg
Human Activin-B (inactive)	PNb-014-I	Nicotiana benth.	14.6 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by its ability to inhibit the proliferation of mouse MPC-11 cells is  $\leq 2 - 5$  ng/ml.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Activin-B(#9M29)	101-M203	Mouse	WB, N	100µg

**Activin-C***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Activin-C(#4N17)	101-M204	Mouse	WB	100µg

**Anti-human Activin Receptor***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Activin R-2A	101-M171	Mouse	WB	100µg
Anti-human Activin R-2B	101-M172	Mouse	WB	100µg

**Anti-human ADAM8***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human ADAM8	101-M208	Mouse	WB	100µg

☞ Premium products, all produced by ReliaTech!

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Please inquire for different vial sizes and bulk quantities.

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**Anti-ADAM9***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAM9	101-M209	Mouse	WB	100µg
Anti-mouse ADAM9	103-M213	Rat	WB	100µg

**Anti-ADAM10***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAM10	101-M205	Mouse	WB	100µg
Anti-mouse ADAM10	103-M300	Rat	WB, IF	100µg

**Anti-ADAM15***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAM15	101-M206	Mouse	WB	100µg
Anti-mouse ADAM15	103-M301	Rat	WB	100µg

**Anti-human ADAM17***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAM107	101-M207	Mouse	WB, FC	100µg

**Anti-mouse ADAM19***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse ADAM109	103-M302	Rat	WB	100µg

**Anti-human ADAMTS4***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAMTS4	101-M210	Mouse	WB, N	100µg

**Anti-human ADAMTSL-1***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ADAMTSL-1	101-M211	Mouse	WB	100µg

**Adiponectin**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Adiponectin	100-121S	Insect cells	26.0 kDa	5µg
Human Adiponectin	100-121	Insect cells	26.0 kDa	25µg
Mouse Adiponectin	M10-009S	Insect cells	35.0 kDa	5µg
Mouse Adiponectin	M10-009	Insect cells	35.0 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> as determined by its ability to inhibit the proliferation of mouse MPC-11 cells is < 2 ng/ml (human). Determined by a cytotoxic assay using M1 cells. The ED<sub>50</sub> for this effect is 4.0-6.0 µg/ml (mouse).

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Adiponectin	101-M212	Mouse	WB	100µg
Anti-mouse Adiponectin	103-M214	Rat	WB	100µg

**Anti-human Aggrecan***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Aggrecan	101-M213	Mouse	WB, IHC(P)	100µg

**Anti-AgRP***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human AgRP	101-M214	Mouse	WB	100µg
Anti-mouse AgRP	103-M303	Rat	WB	100µg

**AITRL Activation-induced TNFR member ligand**

Product	Catalog#	Source	MW	Size
Human AITRL	100-122S	E. coli	14,3 kDa	5µg
Human AITRL	100-122	E. coli	14,3 kDa	20µg

**Biological Activity:** Determined by its ability to stimulate IL-8 production by human PBMC using a concentration range of 1-10 ng/ml. Note: Results may vary with PBMC donors.

**Polyclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human AITRL	102-P215	Rabbit	E, WB	100µg

**Anti-ALK-1 /-2 /-3 /-4 /-5 /-6****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse ALK-1	103-M95	Mouse	WB, IHC	100µg
Anti-human ALK-2	101-M173	Mouse	WB, IHC	100µg
Anti-human ALK-3	101-M174	Mouse	WB	100µg
Anti-human ALK-4	101-M175	Mouse	WB	100µg
Anti-mouse ALK-4	103-M212	Rat	WB	100µg
Anti-mouse ALK-5	103-M96	Rat	WB, IHC	100µg
Anti-human ALK-6	101-M176	Mouse	WB	100µg

**Anti-mouse ALS****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse ALS	103-M304	Rat	WB	100µg

**Aeromonas Aminopeptidase**

Product	Catalog#	Source	MW	Size
Aeromonas Aminopeptidase	100-401S	E. coli	31,4 kDa	100µg
Aeromonas Aminopeptidase	100-401	E. coli	31,4 kDa	500µg

**Biological Activity:** Sequentially cleaves N-terminal amino acids except E, D, and X-P. Anti-rat Aminopeptidase P

**Anti-rat Aminopeptidase P**

← PP

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-rat Aminopeptidase P	104-M01	Mouse	IHC	100µg

**Amphiregulin**

Product	Catalog#	Source	MW	Size
Human Amphiregulin (98aa)	100-393S	E. coli	11,3 kDa	10µg
Human Amphiregulin (98aa)	100-393	E. coli	11,3 kDa	50µg

**Biological Activity:** Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED<sub>50</sub> for this effect is 75-100 ng/ml.

**Monoclonal Antibodies.**

Product	Catalog#	Source	Application	Size
Anti-human Amphiregulin	101-M215	Mouse	WB	100µg
Anti-mouse Amphiregulin	103-M305	Rat	WB	100µg

**Anti-human Angiogenin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Angiogenin(#7M15)	101-M152	Mouse	WB	100µg

**Anti-human Angiopoietin-like Factor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Ang-like Factor	101-M217	Mouse	WB	100µg

**Anti-human Angiopoietin-like protein 1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Ang-like 1	101-M218	Mouse	WB	100µg

← PP Premium products, all produced by ReliaTech!

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**Anti-Angiopoietin-like protein 2***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Ang-like 2	101-M219	Mouse	WB	100µg
Anti-mouse Ang-like 2	103-M306	Rat	WB	100µg

**Anti-mouse Angiopoietin-like protein 3***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Ang-like 3	103-M307	Rat	WB	100µg

**Ang-1 Angiopoietin-1**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Ang-1	300-047	HeLa cells	60-70 kDa	5µg
Human Ang-1	300-048	HeLa cells	60-70 kDa	20µg

**Biological Activity:** Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC).

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Ang-1 (#26B10)	101-M100	Mouse	WB, IHC	100µg

**Ang-2 Angiopoietin-2**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Ang-2	300-049	CHO cells	66.0 kDa	5µg
Human Ang-2	300-050	CHO cells	66.0 kDa	20µg

**Biological Activity:** The biological activity was determined by the induction of endothelial cell sprouting as described in Korff et al., 2001.

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Ang-2 (#1F29)	101-M102	Mouse	WB	100µg

**Angiopoietin-like protein 3 Ang-5**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Angiopoietin-like protein 3	100-402S	CHO cells	62 kDa	10µg
Human Angiopoietin-like protein 3	100-402	CHO cells	62 kDa	50µg

**Biological Activity:** Measured by its binding ability to recombinant  $\alpha\beta 3$  integrin in a functional ELISA.

**Anti-mouse Ang-3***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Ang-3	103-M215	Rat	WB	100µg

**Anti-human Ang-4***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Ang-4	101-M216	Mouse	WB	100µg

**Anti-human Angiostatin***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Angiostatin	101-M220	Mouse	WB	100µg

**Anti-mouse Angiotensin-converting Enzyme (CD143)***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CD143	103-M211	Rat	WB	100µg

**Anti-human APJ***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human APJ	101-M221	Mouse	IHC(P)	100µg



<b>ApoA-I</b>		<b>Apolipoprotein AI</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ApoA-I	100-123S	E. coli	28.2 kDa	20µg
Human ApoA-I	100-123	E. coli	28.2 kDa	100µg

<b>ApoE2</b>		<b>Apolipoprotein E2</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ApoE2	100-124S	E. coli	34.3 kDa	100µg
Human ApoE2	100-124	E. coli	34.3 kDa	500µg

<b>ApoE3</b>		<b>Apolipoprotein E3</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ApoE3	100-125S	E. coli	34.0 kDa	100µg
Human ApoE3	100-125	E. coli	34.0 kDa	500µg

**Polyclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ApoE3	102-P216	Rabbit	E, WB	100µg

<b>ApoE4</b>		<b>Apolipoprotein E4</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ApoE4	100-126S	E. coli	34.4 kDa	100µg
Human ApoE4	100-126	E. coli	34.4 kDa	500µg

<b>Apo-SAA</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Apo-SAA	100-127S	E. coli	11.7 kDa	10µg
Human Apo-SAA	100-127	E. coli	11.7 kDa	50µg
Human Apo-SAA1	100-387S	E. coli	11.7 kDa	10µg
Human Apo-SAA1	100-387	E. coli	11.7 kDa	50µg

**Biological Activity:** a) Apo-SAA: For most in vitro applications, apo-SAA exerts its biological activity in the concentration range of 10-50 µg/ml. b) Apo-SAA: Determined by its ability to chemoattract human monocytes using a concentration range of 1-10 ng/ml.

<b>APRIL</b>		<b>A proliferating induced ligand</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human APRIL	100-379S	Insect cells	16.3 kDa	20µg
Human APRIL	100-379	Insect cells	16.3 kDa	10µg
Mouse APRIL	M10-050S	E. coli	21.9 kDa	5µg
Mouse APRIL	M10-050	E. coli	21.9 kDa	20µg

**Biological Activity:** Tested by its ability to induce IgM secretion by CpG/CD40L treated human naive B cells, at a concentration of 500ng/ml (human). Measured by its ability to induce cell proliferation of activated T cells (Mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human APRIL	102-P210	Rabbit	E, WB	100µg

<b>Lysobacter Arg-C</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Lysobacter Arg-C	100-403S	Insect cells	26.8 kDa	5µg
Lysobacter Arg-C	100-403	Insect cells	26.8 kDa	20µg

**Biological Activity:** The reaction is measured as an increase in absorbance at 253 nm resulting from the hydrolysis of N-benzoyl-L-arginine ethyl ester (BAEE).

<b>Mycoplasma Arginine Deiminase</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Mycoplasma Arginine Deiminase	100-404S	E. coli	46.3 kDa	5µg
Mycoplasma Arginine Deiminase	100-404	E. coli	46.3 kDa	20µg

**Biological Activity:** Measured by its ability to induce apoptosis in Jurkat cells using a concentration of 100-150 ng/ml.

<b>Artemin</b>				
Synonyms: ART				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Artemin	100-128S	E. coli	24.2 kDa	5µg
Human Artemin	100-128	E. coli	24.2 kDa	20µg

**Biological Activity:** Determined by its ability to promote survival and neurite outgrowth and dorsal root ganglion neurons.

**Polyclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Artemin	102-P217	Rabbit	E, WB	100µg

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**Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-mouse Artemin	103-M216	Rat	WB, IHC	100µg

**Anti-Axl****Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human Axl	101-M222	Mouse	FC	100µg
Anti-mouse Axl	103-M158	Rat	WB	100µg

**Anti-human Azuroicidin****Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human Azuroicidin	101-M223	Mouse	WB	100µg

**Anti-mouse B71****Polyclonal Antibodies – Antigen Affinity Purified**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-mouse B71	103-P40	Rabbit	E, WB	100µg

**Anti-human B7-H****Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human B7-H1	101-M224	Mouse	WB	100µg
Anti-human B7-H2	101-M225	Mouse	WB, N	100µg
Anti-human B7-H3	101-M226	Mouse	WB	100µg

**Anti-human BACE-1****Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human BACE-1	101-M227	Mouse	WB, IHC(P)	100µg

**BAFF****B-cell activating factor belonging to the TNF family**

Synonyms: TNFSF13B, TALL-1, BLYS, THANKS, zTNF4

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>MW</u>	<u>Size</u>
Human BAFF*	100-002S	E. coli	17.0 kDa	5µg
Human BAFF*	100-002	E. coli	17.0 kDa	20µg
Human BAFF	PNb-017	Nicotiana benth.	18-20 kDa	5µg
Human BAFF	PNb-018	Nicotiana benth.	18-20 kDa	10µg
Human BAFF	PNb-026	Nicotiana benth.	18-20 kDa	50µg

**Biological Activity:** \*Determined by a mouse splenocyte survival assay. The expected ED<sub>50</sub> for this effect is 0.5-2.0 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human BAFF	102-P101G	Goat	E, WB	100µg

**Monoclonal Antibodies**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>Application</u>	<u>Size</u>
Anti-human BAFF	101-M18	Mouse	E	500µg

**sBAFF receptor****soluble BAFF receptor**

Synonyms: BAFFR, TNFRSF13C

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>MW</u>	<u>Size</u>
Human sBAFF receptor	S01-038S	E. coli	7.6 kDa	10µg
Human sBAFF receptor	S01-038	E. coli	7.6 kDa	50µg

**Biological Activity:** Determined by its ability to block BAFF induced mouse splenocyte survival. The expected ED<sub>50</sub> for this effect is 2-4 µg/ml in the presence of 1 µg/ml of human soluble BAFF.

**4-1BB Ligand**

<u>Product</u>	<u>Catalog#</u>	<u>Source</u>	<u>MW</u>	<u>Size</u>
Human 4-1BBL	100-001S	E. coli	19.5 kDa	5µg
Human 4-1BBL	100-001	E. coli	19.5 kDa	20µg

**Biological Activity:** Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The ED<sub>50</sub> for this effect is less than 10 ng/ml. Please Note: Results may vary with PBMC donors.

**Polyclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human 4-1BBL	102-P218	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse 4-1BBL	103-M209	Rat	WB, FC	100µg

**4-1BB receptor (soluble receptor)**

Product	Catalog#	Source	MW	Size
Human 4-1BB (sol. Rec.)	S01-039S	E. coli	17.7 kDa	5µg
Human 4-1BB (sol. Rec.)	S01-039	E. coli	17.7 kDa	20µg

**Biological Activity:** Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The ED<sub>50</sub> for this effect is less than 10 ng/ml. Please Note: Results may vary with PBMC donors.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human 4-1BB receptor	102-P100G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse 4-1BB receptor	103-M210	Rat	WB, FC	100µg

**BCA-1/BLC B-cell attracting chemokine-1**

Product	Catalog#	Source	MW	Size
Human BCA-1	100-003S	E. coli	10.1 kDa	5µg
Human BCA-1	100-003	E. coli	10.1 kDa	20µg
Mouse BCA-1/BLC	M10-051	E. coli	9.5 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human B cells using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human BCA-1	102-P01	Rabbit	E, WB	100µg

**BCAM B cell maturation antigen**

Product	Catalog#	Source	MW	Size
Human BCMA	100-131S	E. coli	5.3 kDa	5µg
Human BCMA	100-131	E. coli	5.3 kDa	20µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BCMA	101-M228	Mouse	WB	100µg

**BD-1, -2, -3, -4 beta-Defensins 1-4**

Product	Catalog#	Source	MW	Size
Human BD-1 (36 a.a.)	100-132S	E. coli	3.9 kDa	5µg
Human BD-1 (36 a.a.)	100-132	E. coli	3.9 kDa	20µg
Human BD-1 (47 a.a.)	100-133S	E. coli	5.0 kDa	5µg
Human BD-1 (47 a.a.)	100-133	E. coli	5.0 kDa	20µg
Human BD-2	100-004S	E. coli	4.3 kDa	5µg
Human BD-2	100-004	E. coli	4.3 kDa	20µg
Human BD-3	100-135S	E. coli	5.1 kDa	5µg
Human BD-3	100-135	E. coli	5.1 kDa	20µg
Human BD-4	100-331S	E. coli	6.0 kDa	5µg
Human BD-4	100-331	E. coli	6.0 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract CD34+ dendritic cells using a concentration range of 100-1000 ng/ml [BD-1], to chemoattract immature human dendritic cells using a concentration of 10-100 ng/ml [BD-2], exhibits antimicrobial activity against gram-positive bacteria *S. aureus* and gram-negative *P. aeruginosa* and *E. coli* [BD-3], determined by its ability to chemoattract human monocytes using a concentration range of 0.1-100 ng/ml [BD-4].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human BD-1	102-P219	Rabbit	E, WB	100µg
Anti-human BD-2	102-P103G	Goat	E, WB	100µg
Anti-human BD-3	102-P220	Rabbit	E, WB	100µg
Anti-human BD-4	102-P221	Rabbit	E, WB	100µg

**BDNF Brain-derived neurotrophic factor**

Product	Catalog#	Source	MW	Size
Human BDNF	100-005S	E. coli	27.0 kDa	2µg
Human BDNF	100-005	E. coli	27.0 kDa	10µg

**Biological Activity:** Determined by its ability to stimulate chick E8 neurite outgrowth. The expected ED<sub>50</sub> for this effect is 0.1-1.0 ng/ml.

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**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human BDNF	102-P02	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BDNF	101-M229	Mouse	WB, IHC(P)	100µg

**Betacellulin**

Product	Catalog#	Source	MW	Size
Human Betacellulin	100-332S	E. coli	9.0 kDa	5µg
Human Betacellulin	100-332	E. coli	9.0 kDa	20µg
Mouse Betacellulin	M10-130S	E. coli	9.0 kDa	5µg
Mouse Betacellulin	M10-130	E. coli	9.0 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse Balb/3T3 cells is ≤ 0.05 ng/ml [≥ 2 x 10<sup>7</sup>units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Betacellulin	102-P222	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Betacellulin	101-M230	Mouse	WB	100µg
Anti-mouse Betacellulin	103-M308	Rat	WB	100µg

**Anti-mouse Blood Endothelial Cells (BEC12)**

☞ PP

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse BEC12 (#LA5)	103-M154	Rat	FC, IHC	100µg

**Anti-human BMP-1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BMP-1	101-M231	Mouse	WB	100µg

**BMP-2****Bone morphogenetic protein-2**

☞ PP

Product	Catalog#	Source	MW	Size
Human BMP-2	200-001	E. coli	26.0 kDa	5µg
Human BMP-2	200-002	E. coli	26.0 kDa	25µg

**Biological Activity:** Measured by the ability of BMP-2 to induce alkaline phosphatase production by C2C12 myogenic cells. The ED<sub>50</sub> for this effect is typically 0.3-0.8 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human BMP-2	102-PA106S	Rabbit	WB	100µg
Anti-human BMP-2	102-PA106	Rabbit	WB	200µg
Anti-human BMP-2	102-P03A	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BMP-2	101-M233	Mouse	WB, IHC(P)	100µg

**BMP-3****Bone morphogenetic protein-3**

Product	Catalog#	Source	MW	Size
Human BMP-3	100-394S	E. coli	~12.3 kDa	10µg
Human BMP-3	100-394	E. coli	~12.3 kDa	50µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BMP-3	101-M234	Mouse	WB	100µg

**BMP-4****Bone morphogenetic protein-4**

Product	Catalog#	Source	MW	Size
Human BMP-4	100-326	HeLa cells	31-36 kDa	5µg
Mouse BMP-4	M10-044	E. coli	23,8 kDa	10µg

**Biological Activity:** Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells (human). Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 5-15 ng/ml (mouse).

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-4	101-M235	Mouse	WB	100µg
Anti-human BMP-4	101-M166	Mouse	E, WB, N	500µg

### **BMP-5** Bone morphogenetic protein-5

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human BMP-5	100-388S	E.coli	31-36 kDa	5µg
Human BMP-5	100-388	E.coli	31-36 kDa	20µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-5	101-M236	Mouse	WB	100µg

### **BMP-6** Bone morphogenetic protein-6

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human BMP-6	100-378S	Hek293	26.2 kDa	2µg
Human BMP-6	100-378	Hek293	26.2 kDa	10µg

**Biological Activity:** Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> this effect is 0.03-0.06 µg/ml.

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-6	101-M237	Mouse	WB, N	100µg

### **BMP-7/OP-1** Bone morphogenetic protein-7

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human BMP-7	100-328S	CHO cells	28.8 kDa	2µg
Human BMP-7	100-328	CHO cells	28.8 kDa	10µg
Human BMP-7	PNb-022	Nicotiana benth.	28.8 kDa	5µg
Human BMP-7	PNb-023	Nicotiana benth.	28.8 kDa	10µg
Human BMP-7	PNb-027	Nicotiana benth.	28.8 kDa	20µg

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-7	102-P105	Rabbit	E, WB	100µg
Anti-human BMP-7	102-PA92S	Rabbit	WB	100µg
Anti-human BMP-7	102-PA92	Rabbit	WB	200µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-7	101-M238	Mouse	WB, IHC(P), N	100µg
Anti-human BMP-7	101-M167	Mouse	E	500µg

### **Anti-human BMP-8** Bone morphogenetic protein-8

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-8	101-M239	Mouse	WB	100µg

### **BMP-10** Bone morphogenetic protein-10

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human BMP-10	100-405S	HEK293 cells	24.4 kDa	2µg
Human BMP-10	100-405	HEK293 cells	24.4 kDa	10µg

**Biological Activity:** Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 4.0-6.0 ng/ml.

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human BMP-10	101-M232	Mouse	WB, N	100µg

### **BMP-13 (GDF-6)** Bone morphogenetic protein-13 (GDF-6)

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human BMP-13/CDMP-2	100-137S	E. coli	27.0 kDa	10µg
Human BMP-13/CDMP-2	100-137	E. coli	27.0 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to induce alkaline phosphatase production by ATDC-5 chondrogenic cells in the range of 2-3 µg/ml.

### **sBMPR-1A** Soluble BMPR-1A

☞ PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sBMPR-1A	S01-021	Insect cells	23.0 kDa	100µg

**Biological Activity:** Measured by its ability to inhibit recombinant human BMP-2 induced alkaline phosphatase production by C2C12 myogenic cells. The ED<sub>50</sub> for this effect is typically 1-3 µg/ml in the presence of 500 ng/ml of recombinant human BMP-2.

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**Anti-human BMP Receptor II****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human BMP RII	101-M177	Mouse	WB	100µg

**BRAK/CXCL14 Breast and kidney-expressed chemokine**

Product	Catalog#	Source	MW	Size
Human BRAK	100-139S	E. coli	9.4 kDa	5µg
Human BRAK	100-139	E. coli	9.4 kDa	20µg

**Biological Activity:** Determined by it's ability to chemoattract activated monocytes using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human BRAK	102-P223	Rabbit	E, WB	100µg

**C1 Inhibitor Plasma protease C1**

Product	Catalog#	Source	MW	Size
Human C1 Inhibitor	100-406S	CHO cells	49.4 kDa	50µg
Human C1 Inhibitor	100-406	CHO cells	49.4 kDa	200µg

**Biological Activity:** Measured by its ability to inhibit recombinant human complement component C1a cleavage of a colorimetric peptide substrate, N Carbobenzyloxy-Lys-ThioBenzyl ester (Z-K-SBzl). The expected IC50 is ≤ 2.6 nM.

**C10/CCL6**

Product	Catalog#	Source	MW	Size
Mouse C10	M10-001S	E. coli	10.7 kDa	2µg
Mouse C10	M10-001	E. coli	10.7 kDa	10µg

**Biological Activity:** The biological activity of mouse C10 was determined by a chemotaxis assay using Balb/c mouse spleen MNCs. The maximum chemotactic activity was achieved at 100 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse C10	103-P01	Rabbit	E, WB	100µg

**Anti-human Cadherin-17****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Cadherin-17	101-M240	Mouse	WB, IHC(P)	100µg

**Anti-human Carboxypeptidase A2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Carboxyp. A2	101-M241	Mouse	WB, N	100µg

**Rat Carboxypeptidase-B**

Product	Catalog#	Source	MW	Size
Rat Carboxypeptidase-B	R20-019S	E. coli	35,1 kDa	5µg
Rat Carboxypeptidase-B	R20-019	E. coli	35,1 kDa	25µg

**Cardiotrophin-1 / CT-1**

Product	Catalog#	Source	MW	Size
Human Cardiotrophin-1	100-006S	E. coli	21.5 kDa	2µg
Human Cardiotrophin-1	100-006	E. coli	21.5 kDa	10µg
Mouse Cardiotrophin-1	M10-052S	E. coli	21.3 kDa	2µg
Mouse Cardiotrophin-1	M10-052	E. coli	21.3 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells was < 1 ng/ml [ $> 1 \times 10^6$  units/mg]

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Cardiotrophin-1	102-P04	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Cardiotrophin-1	101-M242	Mouse	WB, N	100µg
Anti-mouse Cardiotrophin-1	103-M309	Rat	WB	100µg

**Anti-human CART****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CART	101-M243	Mouse	WB, IHC(F)	100µg

**Anti-human Cathepsin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Cathepsin-A	101-M244	Mouse	WB	100µg
Anti-human Cathepsin-B	101-M245	Mouse	WB	100µg
Anti-human Cathepsin-D	101-M247	Mouse	WB	100µg
Anti-human Cathepsin-E	101-M248	Mouse	WB	100µg
Anti-human Cathepsin-F	101-M249	Mouse	WB	100µg
Anti-human Cathepsin-L	101-M250	Mouse	WB	100µg
Anti-human Cathepsin-O	101-M251	Mouse	WB	100µg
Anti-human Cathepsin-S	101-M252	Mouse	WB	100µg
Anti-human Cathepsin-V	101-M253	Mouse	WB, IHC(P)	100µg
Anti-human Cathepsin-XZP	101-M254	Mouse	WB	100µg

**Anti-mouse Cathepsin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Cathepsin-3	103-M310	Rat	WB	100µg
Anti-mouse Cathepsin-6	103-M311	Rat	WB	100µg
Anti-mouse Cathepsin-7	103-M312	Rat	WB	100µg
Anti-mouse Cathepsin-A	103-M313	Rat	WB, IHC(F)	100µg
Anti-mouse Cathepsin-B	103-M314	Rat	WB	100µg
Anti-mouse Cathepsin-D	103-M315	Rat	WB	100µg
Anti-mouse Cathepsin-E	103-M316	Rat	WB	100µg
Anti-mouse Cathepsin-F	103-M317	Rat	WB	100µg
Anti-mouse Cathepsin-H	103-M318	Rat	WB	100µg
Anti-mouse Cathepsin-L	103-M319	Rat	WB, IHC(P)	100µg

**Human ccbe1****Collagen and calcium-binding EGF domain-containing protein 1**

Product	Catalog#	Source	MW	Size
Human ccbe1 (positive control)	300-058	Insect cells	46 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human ccbe1	102-PA36S	Rabbit	WB, IF	100µg
Anti-human ccbe1	102-PA36	Rabbit	WB, IF	200µg

**Anti-CCL****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CCL-1	101-M255	Mouse	WB, N	100µg
Anti-mouse CCL-1	103-M320	Rat	WB, N	100µg
Anti-human CCL-2	101-M263	Mouse	WB, IHC(P)	100µg
Anti-mouse CCL-2	103-M325	Rat	WB, N	100µg
Anti-human CCL-3	101-M273	Mouse	WB, IHC, N	100µg
Anti-mouse CCL-3	103-M333	Rat	WB, N	100µg
Anti-mouse CCL-4	103-M334	Rat	N, E	100µg
Anti-human CCL-5	101-M274	Mouse	WB, N	100µg
Anti-mouse CCL-5	103-M335	Rat	N, IHC(F), E	100µg
Anti-mouse CCL-6	103-M336	Rat	WB, N	100µg
Anti-human CCL-7	101-M275	Mouse	WB, N	100µg
Anti-human CCL-8	101-M276	Mouse	WB, N	100µg
Anti-mouse CCL-8	103-M337	Rat	WB	100µg
Anti-mouse CCL-9	103-M338	Rat	WB, N	100µg
Anti-human CCL-11	101-M256	Mouse	WB, IHC(P), N	100µg
Anti-mouse CCL-11	103-M321	Rat	WB, IHC(F), N	100µg
Anti-mouse CCL-12	103-M322	Rat	WB, N	100µg
Anti-human CCL-13	101-M257	Mouse	FC, N	100µg
Anti-human CCL-14	101-M246	Mouse	WB, N	100µg
Anti-human CCL-15	101-M258	Mouse	WB, N	100µg
Anti-human CCL-16	101-M259	Mouse	WB, IHC(P), N	100µg
Anti-human CCL-17	101-M260	Mouse	WB	100µg
Anti-mouse CCL-17	103-M323	Rat	WB, N	100µg
Anti-human CCL-18	101-M261	Mouse	WB	100µg
Anti-human CCL-19	101-M262	Mouse	WB, IHC(F)	100µg

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Anti-mouse CCL-19	103-M324	Rat	WB, N	100µg
Anti-human CCL-20	101-M264	Mouse	WB, N	100µg
Anti-mouse CCL-20	103-M326	Rat	WB, N	100µg
Anti-human CCL-21	101-M265	Mouse	WB	100µg
Anti-mouse CCL-21	103-M327	Rat	WB	100µg
Anti-human CCL-22	101-M266	Mouse	WB, N	100µg
Anti-mouse CCL-22	103-M328	Rat	WB, N	100µg
Anti-human CCL-23	101-M267	Mouse	WB, N	100µg
Anti-human CCL-24	101-M268	Mouse	WB, N	100µg
Anti-mouse CCL-24	103-M329	Rat	WB, N	100µg
Anti-human CCL-25	101-M269	Mouse	WB	100µg
Anti-mouse CCL-25	103-M330	Rat	WB, IHC(F), N	100µg
Anti-human CCL-26	101-M270	Mouse	WB	100µg
Anti-human CCL-27	101-M271	Mouse	WB, IHC(F), N	100µg
Anti-mouse CCL-27	103-M331	Rat	WB, IHC(F), N	100µg
Anti-human CCL-28	101-M272	Mouse	WB, N	100µg
Anti-mouse CCL-28	103-M332	Rat	WB, N	100µg

<b>Human CCM-1</b>		<b>Cerebral cavernous malformations 1 protein</b>		<b>☞PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CCM-1 (positive control)	300-054	E. coli	83 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CCM-1	102-PA25S	Rabbit	WB, IF	100µg
Anti-human CCM-1	102-PA25	Rabbit	WB, IF	200µg

<b>Human CCM-2</b>		<b>Cerebral cavernous malformations 2 protein</b>		<b>☞PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CCM-2 (positive control)	300-055	E. coli	55 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CCM-2	102-PA26S	Rabbit	WB, IF	100µg
Anti-human CCM-2	102-PA26	Rabbit	WB, IF	200µg

<b>Human CCM-3</b>		<b>Cerebral cavernous malformations 3 protein</b>		<b>☞PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CCM-3 (positive control)	300-056	E. coli	26 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CCM-3	102-PA27S	Rabbit	WB, IF	100µg
Anti-human CCM-3	102-PA27	Rabbit	WB, IF	200µg

**Anti-CCR****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CCR1	101-M277	Mouse	FC, IHC (P)	100µg
Anti-human CCR2	101-M278	Mouse	FC	100µg
Anti-human CCR3	101-M279	Mouse	FC, IHC (F)	100µg
Anti-mouse CCR3	103-M339	Rat	FC	100µg
Anti-human CCR4	101-M280	Mouse	FC	100µg
Anti-human CCR5	101-M281	Mouse	WB, IHC (P)	100µg
Anti-human CCR6	101-M282	Mouse	FC, IHC (P)	100µg
Anti-mouse CCR6	103-M340	Rat	FC, IHC (F)	100µg
Anti-human CCR7	101-M283	Mouse	FC, IHC (F)	100µg
Anti-human CCR8	101-M284	Mouse	FC	100µg
Anti-human CCR9	101-M285	Mouse	FC, IHC (F)	100µg
Anti-mouse CCR9	103-M341	Rat	FC	100µg

**Anti-CCRL-2****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CCRL-2	101-M286	Mouse	FC	100µg



**Anti-mouse CD3***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CD3 (#3B19)	103-M99	Rat	FC, IP, IHC	200µg

**Anti-human CD3 epsilon***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD3 epsilon	101-M303	Mouse	FC, IHC(F),	100µg

**Anti-CD4***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD4	101-M307	Mouse	FC, IHC(F)	100µg
Anti-mouse CD4 (#2H9)	103-M105	Rat	FC, IHC	200µg

**Anti-human CD5***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD5	101-M308	Mouse	WB, FC	100µg

**Anti-CD6***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD6	101-M312	Mouse	WB	100µg
Anti-mouse CD6	103-M343	Rat	WB	100µg

**Anti-CD8***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD8 alpha	101-M314	Mouse	FC	100µg
Anti-mouse CD8a	103-M106	Rat	FC, IHC	200µg

**Anti-human CD9***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD9	101-M318	Mouse	FC	100µg

**Anti-mouse CD11c***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CD11c	103-M156	A. Hamster	FC, IP, IHC	200µg

**sCD14****soluble CD14**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD14	100-406S	HEK293 cells	75.0 kDa	10µg
Human sCD14	100-406	HEK293 cells	75.0 kDa	50µg

**Biological Activity:** Determined by the dose dependent activation of NF-kappaB in a RAW264 cell line based reporter system, using a sCD14 concentration range of 20 ng/µl to 200 ng/µl. The NF-kappaB activation is enhanced when the assay is done in the presence of 0.25 ng/µl to 1.0 ng/µl bacterial LPS.

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD14	101-M288	Mouse	WB	100µg
Anti-mouse CD14	103-M342	Rat	WB, FC	100µg

**Anti-human CD16***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD16	101-M290	Mouse	FC	100µg
Anti-human CD16b	101-M293	Mouse	WB, FC	100µg

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<b>sCD22</b>		<b>Soluble CD22</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD22	S01-031S	CHO cells	75.0 kDa	5µg
Human sCD22	S01-031	CHO cells	75.0 kDa	20µg
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD22	102-P107	Rabbit	E, WB	100µg
<b>sCD23</b>		<b>Soluble CD23</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD23	S01-050S	E. coli	19.2 kDa	5µg
Human sCD23	S01-050	E. coli	19.2 kDa	20µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD23 (#2C23)	101-M297	Mouse	WB, FC, N	100µg
<b>Anti-mouse CD25</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CD25 (#7G19)	103-M107	Rat	FC, IHC	200µg
<b>Anti-CD26</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD26	101-M300	Mouse	WB, FC	100µg
Anti-mouse CD26	103-M374	Rat	WB	100µg
<b>sCD27L</b>		<b>Soluble CD27 Ligand</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD27 Ligand	S01-041S	CHO cells	18.8 kDa	10µg
Human sCD27 Ligand	S01-041	CHO cells	18.8 kDa	50µg
<b>Biological Activity:</b> Determined by its ability to stimulate human IL-8 production by human PBMC using a concentration range of 10.0-25.0 ng/ml. Note: Results may vary with PBMC donors..				
<b>Anti-CD28</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD28	101-M301	Mouse	WB, FC	100µg
Anti-mouse CD28	103-M140	S. Hamster	FC, IHC	200µg
<b>sCD30L</b>		<b>Soluble CD30 Ligand</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD30 Ligand	S01-042S	CHO cells	21.3 kDa	10µg
Human sCD30 Ligand	S01-042	CHO cells	21.3 kDa	50µg
<b>Biological Activity:</b> Determined by its ability to stimulate human IL-8 production by human PBMC using a concentration range of 10.0-25.0 ng/ml. Note: Results may vary with PBMC donors..				
<b>Human CD31</b>		<b>PECAM</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CD31/PECAM	100-386S	HEK293 cells	80-95 kDa	10µg
Human CD31/PECAM	100-386	HEK293 cells	80-95 kDa	50µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD31 (#158-2B3)	101-M92	Mouse	E, WB, FC	50µg
Anti-mouse CD31	103-M104	Rat	IHC	200µg
<b>Anti-human CD31/PECAM-1 “Antagonistic”</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse PECAM-1	mP1001r-m	Rat	“Antagonistic”	200µg

**Anti-human CD32***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD32	101-M304	Mouse	WB, FC	100µg

**sCD34****Soluble CD34**

Product	Catalog#	Source	MW	Size
Human sCD34	S01-065S	E. coli	28.6 kDa	5µg
Human sCD34	S01-065	E. coli	28.6 kDa	20µg

**Anti-CD34***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD34 (#34C02)	101-M94	Mouse	E, WB, FC	50µg
Anti-mouse CD34	103-M103	Rat	IHC	200µg

**Anti-human CD36***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD36	101-M305	Mouse	FC	100µg

**Anti-human CD38***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD38	101-M306	Mouse	FC, IHC(F)	100µg

**sCD40 Ligand****soluble CD40 ligand**

Product	Catalog#	Source	MW	Size
Human sCD40	100-115S	E. coli	16.3 kDa	10µg
Human sCD40	100-115	E. coli	16.3 kDa	50µg
Mouse sCD40	M10-054S	E. coli	16.4 kDa	5µg
Mouse sCD40	M10-054	E. coli	16.4 kDa	25µg

**Biological Activity:** Determined by the dose-dependent stimulation of IL-8 production by human PBMC. The expected ED<sub>50</sub> for this effect is 5-10 ng/ml (human) and by its ability to induce TNF-alpha and MIP-1 alpha production by mouse splenocytes. The expected ED<sub>50</sub> for this effect is < 0.1 µg/ml (mouse).

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human sCD40	102-P108	Rabbit	E, WB	100µg
Anti-human sCD40	102-P108G	Goat	E, WB	100µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse CD40 Ligand	103-M142	A. Hamster	IHC, FC	200µg

**Anti-CD40***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD40	101-M148	Mouse	IHC	100µg
Anti-mouse CD40	103-M148	Rat	IHC	200µg

**Anti-mouse CD45***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse CD45	103-M160	Rat	IHC	200µg

**Anti-mouse CD45R (B220)***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse CD45R	103-M205	Rat	FC, IHC	100µg

**Anti-human CD50***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD50	101-M309	Mouse	WB, N	100µg

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**Anti-human CD55***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD55	101-M310	Mouse	WB, N	100µg

**Anti-human CD58***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD58	101-M311	Mouse	WB, FC	100µg

**Anti-human CD64***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD64	101-M313	Mouse	FC, IHC(F)	100µg

**Anti-mouse CD72***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CD72	103-M344	Rat	WB	100µg

**Anti-CD80***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD80	101-M315	Mouse	FC, IHC(P), N	100µg
Anti-mouse CD80	103-M144	A. Hamster	IHC	200µg

**Anti-human CD83***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD83	101-M316	Mouse	FC, IHC(F)	100µg

**Anti-CD86***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD86	101-M317	Mouse	FC, WB, N	100µg
Anti-mouse CD86 (B7-2)	103-M150	Rat	FC, IHC	200µg

**Anti-human CD94***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD94	101-M319	Mouse	FC	100µg

**Anti-human CD97***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD97	101-M320	Mouse	N	100µg

**sCD100****Soluble CD100**

Synonyms: Semaphorin-4D, BB18, A8, GR3

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sCD100	S01-063S	CHO cells	78,9 kDa	5µg
Human sCD100	S01-063	CHO cells	78,9 kDa	20µg

**Anti-human CD102***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CD102	101-M287	Mouse	WB	100µg

**Anti-mouse CD103****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse CD103	103-M204	Rat	FC, IHC	100µg

**sCD105****soluble CD105/Endoglin**

Product	Catalog#	Source	MW	Size
Human sCD105	S01-024	Insect cells	90.0 kDa	5µg
Human sCD105	S01-025	Insect cells	90.0 kDa	25µg
Mouse sCD105	S01-022	Insect cells	85.0 kDa	5µg
Mouse sCD105	S01-023	Insect cells	85.0 kDa	25µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human CD105	102-PA60S	Rabbit	E, WB	100µg
Anti-human CD105	102-PA60	Rabbit	E, WB	200µg
Anti-mouse CD105	103-PA60S	Rabbit	E, WB	100µg
Anti-mouse CD105	103-PA60	Rabbit	E, WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human CD105	102-PA60AG	Rabbit	E, WB	50µg
Anti-mouse CD105	103-PA60AG	Rabbit	E, WB	50µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CD105	101-M160	Mouse	IHC	100µg
Anti-mouse CD105	103-M60	Rat	E, WB	100µg
<b>Biotin-conjugated</b> Anti-mouse CD105	103-MBi60	Rat	E, WB	50µg
<b>FITC-conjugated</b> Anti-mouse CD105	103-M60-FITC	Rat	FC	25µg
Anti-mouse CD105	103-M60-FITC	Rat	FC	50µg
<b>PE-conjugated</b> Anti-mouse CD105	103-M60-PE	Rat	FC	25µg
Anti-mouse CD105	103-M60-PE	Rat	FC	50µg
Anti-mouse CD105 (#6J9)	103-M102	Rat	WB, IHC	200µg
Anti-human CD105	mT1001m-h	Mouse	“Antagonistic”	200µg

**Anti-mouse CD147****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse CD147	103-M380	Rat	WB	100µg

**Anti-human CD151****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CD151	101-M289	Mouse	FC	100µg

**Anti-human CD163****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CD163	101-M291	Mouse	WB, FC	100µg

**Anti-human CD166****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CD166	101-M292	Mouse	WB	100µg

**Anti-human CD200****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CD200	101-M294	Mouse	N	100µg

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**Anti-human CD209***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD209	101-M295	Mouse	WB, IHC(F), N	100µg

**Anti-human CD229***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD229	101-M296	Mouse	WB, FC	100µg

**Anti-human CD244***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD244	101-M298	Mouse	WB	100µg

**Anti-human CD257***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD257	101-M299	Mouse	WB	100µg

**Anti-human CD299***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CD299	101-M302	Mouse	FC, N	100µg

**CDNF**

Product	Catalog#	Source	MW	Size
Human CDFN	100-400S	E. coli	18,5 kDa	5µg
Human CDFN	100-400	E. coli	18,5 kDa	25µg

**Biological Activity:** Determined by its ability to stimulate the proliferation of rat C6 cells.

**CEACAM-1****Carcinoembryonic antigen-related cell adhesion molecule 1***Polyclonal Antibodies – Protein-A Purified*

Product	Catalog#	Source	Application	Size
Anti-human CEACAM-1 (D1-4)	102-PA100S	Rabbit	WB	100µg
Anti-human CEACAM-1 (D1-4)	102-PA100	Rabbit	WB	200µg
Anti-human CEACAM-1 (ΔN)	102-PA102S	Rabbit	WB	100µg
Anti-human CEACAM-1 (ΔN)	102-PA102	Rabbit	WB	200µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CEACAM-1 (#5C-1X)	101-M181	Mouse	E, WB, F, IP	100µg
Anti-human CEACAM-1 (#B3)	101-M182	Mouse	E, WB, F, IP	100µg

**Anti-Cerberus-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Cerberus-1	101-M321	Mouse	WB, IHC(P)	100µg
Anti-mouse Cerberus-1	103-M345	Rat	WB	100µg

**Human Chemerin**

Product	Catalog#	Source	MW	Size
Human Chemerin	100-395S	E. coli	15,6 kDa	5µg
Human Chemerin	100-395	E. coli	15,6 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract human immature dendritic cells using a concentration range of 1-100 ng/ml.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Chemerin	101-M323	Mouse	WB	100µg

**Anti-human Chem R23***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Chem R23	101-M322	Mouse	FC	100µg

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**Anti-human CLC***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CLC	101-M324	Mouse	WB	100µg

**Anti-human CLEC***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CLEC-1	101-M325	Mouse	WB	100µg
Anti-human CLEC-2	101-M326	Mouse	WB, FC	100µg

**Anti-human CLN-2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CLN-2	101-M327	Mouse	WB	100µg

**CNTF****Ciliary neurotrophic factor**

Product	Catalog#	Source	MW	Size
Human CNTF	100-107S	E.coli	22.7 kDa	5µg
Human CNTF	100-107	E.coli	22.7 kDa	20µg
Rat CNTF*	R20-001S	E.coli	22.7 kDa	5µg
Rat CNTF*	R20-001	E.coli	22.7 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent proliferation of human TF-1 cells is < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg] (human) and by its ability to stimulate proliferation of human TF-1 cells using a concentration range of 25.0-35.0 ng/ml (rat).

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human CNTF	102-P05	Rabbit	E, WB	100µg
Anti-rat CNTF	104-P01	Rabbit	E, WB, N	100µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CNTF	101-M328	Mouse	WB, N	100µg

**Anti-human CNTF Receptor***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human CNTF R	101-M329	Mouse	WB	100µg

**Anti-human Coagulation Factor***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Coagulation Fac II	101-M330	Mouse	WB	100µg
Anti-human Coagulation Fac X	101-M331	Mouse	WB	100µg
Anti-human Coagulation Fac XI	101-M332	Mouse	WB, N	100µg

**Anti-human Common beta chain***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Com beta chain	101-M333	Mouse	WB	100µg

**Anti-human Common gamma chain***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Com gamma chain	101-M334	Mouse	WB, N	100µg

**Anti-Complement***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Complement Factor D	101-M335	Mouse	WB	100µg
Anti-human Complement MASP3	101-M336	Mouse	WB	100µg
Anti-mouse Complement C5a	103-M348	Rat	WB, N	100µg

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**Anti-human Contactin-1***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Contactin-1	101-M337	Mouse	WB, IHC(P)	100µg

**Anti-mouse Cordin***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Cordin	103-M346	Rat	WB	100µg

**Anti-human Corin***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Corin	101-M338	Mouse	WB	100µg

**Anti-human CRACC***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CRACC	101-M339	Mouse	FC	100µg

**Anti-human CRIM-1***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CRIM-1	101-M340	Mouse	WB	100µg

**Anti-Cripto***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Cripto	101-M341	Mouse	WB	100µg
Anti-mouse Cripto	103-M349	Rat	WB	100µg

**CRP****C-reactive protein**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CRP	100-144	E.coli	23.2 kDa	1000µg

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CRP	101-M342	Mouse	WB	100µg

**Anti-human CRTAM***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CRTAM	101-M343	Mouse	WB, FC	100µg

**Anti-Cryptic***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Cryptic	101-M344	Mouse	WB	100µg
Anti-mouse Cryptic	103-M350	Rat	WB	100µg

**CTACK/CCL27****Cutaneous T-cell attracting chemokine**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CTACK	100-145S	E.coli	9.8 kDa	5µg
Human CTACK	100-145	E.coli	9.8 kDa	20µg
Mouse CTACK	M10-055S	E.coli	10.9 kDa	5µg
Mouse CTACK	M10-055	E.coli	10.9 kDa	20µg

**CTGF****Connective tissue growth factor**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CTGF (98 a.a.)	100-146S	E.coli	11.2 kDa	5µg
Human CTGF (98 a.a.)	100-146	E.coli	11.2 kDa	20µg

**Biological Activity:** Determined by the dose-dependent stimulation of the proliferation of HUVEC cells. The expected ED<sub>50</sub> for this effect is 1-2 µg/ml.



**Polyclonal Antibodies – Antigen-Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CTGF	102-P224	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CTGF	101-M131	Mouse	E, IHC	100µg

**CTGFL/WISP-2** **Connective tissue growth factor-like protein**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CTGFL/WISP	100-147S	E.coli	24.8 kDa	5µg
Human CTGFL/WISP	100-147	E.coli	24.8 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is between 10-20 ng/ml in the presence of 15 ng/ml of human IGF-II.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CTGFL/WISP2	102-P110	Rabbit	E, WB	100µg

**Anti-CTLA-4** **Connective tissue growth factor-like protein****Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse CTLA-4	103-P43	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CTLA4	101-M345	Mouse	WB	100µg
Anti-mouse CTLA4	103-M351	Rat	WB, FC, N	100µg

**Anti-CX3CL1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CX3CL1	101-M346	Mouse	WB, IHC(P)	100µg
Anti-mouse CX3CL1	103-M352	Rat	WB, N	100µg

**Anti-CXCL****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human CXCL1	101-M347	Mouse	WB, N	100µg
Anti-mouse CXCL1	103-M353	Rat	WB, N	100µg
Anti-human CXCL2	101-M353	Mouse	WB, N	100µg
Anti-mouse CXCL2	103-M360	Rat	WB, N	100µg
Anti-human CXCL4	101-M354	Mouse	WB	100µg
Anti-mouse CXCL4	103-M361	Rat	WB	100µg
Anti-human CXCL5	101-M355	Mouse	WB, IHC(P), N	100µg
Anti-human CXCL6	101-M356	Mouse	WB, N	100µg
Anti-human CXCL7	101-M357	Mouse	WB, N	100µg
Anti-mouse CXCL7	103-M362	Rat	WB, N	100µg
Anti-human CXCL8	101-M358	Mouse	WB, FC, IHC(F), N	100µg
Anti-human CXCL9	101-M359	Mouse	WB, FC, IHC(F), N	100µg
Anti-human CXCL10	101-M348	Mouse	WB, N	100µg
Anti-mouse CXCL10	103-M354	Rat	WB, N	100µg
Anti-human CXCL11	101-M349	Mouse	WB, N	100µg
Anti-mouse CXCL11	103-M355	Rat	WB, N	100µg
Anti-human CXCL12	101-M350	Mouse	FC, IHC(P)	100µg
Anti-human CXCL13	101-M351	Mouse	WB, N	100µg
Anti-mouse CXCL13	103-M356	Rat	WB, N	100µg
Anti-human CXCL14	101-M352	Mouse	WB	100µg
Anti-mouse CXCL14	103-M357	Rat	WB	100µg
Anti-mouse CXCL15	103-M358	Rat	WB	100µg

**CXCL16**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human CXCL16	100-148S	E.coli	10.1 kDa	5µg
Human CXCL16	100-148	E.coli	10.1 kDa	25µg
Mouse CXCL16	M10-056S	E.coli	9.9 kDa	5µg
Mouse CXCL16	M10-056	E.coli	9.9 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract activated lymphocytes (concentration of 1-100 ng/ml (human) and by its ability to chemoattract mouse lymphocytes (concentration of 20-1000 ng/ml (mouse)).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human CXCL16	102-P111	Rabbit	E, WB	100µg
Anti-mouse CXCL16	103-P44G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse CXCL16	103-M359	Rat	WB, N	100µg

**Anti-CXCR****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human CXCR1	101-M360	Mouse	IHC(F), FC, N	100µg
Anti-human CXCR2	101-M361	Mouse	IHC(F), FC, N	100µg
Anti-mouse CXCR2	103-M363	Rat	FC, N	100µg
Anti-human CXCR3	101-M362	Mouse	IHC(F), FC, N	100µg
Anti-mouse CXCR3	103-M364	Rat	FC	100µg
Anti-human CXCR4	101-M363	Mouse	IHC(F), FC, N	100µg
Anti-human CXCR5	101-M364	Mouse	WB, IHC(F), FC	100µg
Anti-human CXCR6	101-M365	Mouse	FC, IHC(F)	100µg
Anti-mouse CXCR6	103-M365	Rat	FC	100µg

**Polyclonal Antibodies- Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human CXCR4	102-PA120S	Rabbit		100µg
Anti-human CXCR4	102-PA120	Rabbit		200µg
Anti-human CXCR4	102-PA120AG	Rabbit		50µg

**CYR61**

Product	Catalog#	Source	MW	Size
Human CYR61	100-149S	E.coli	39.5 kDa	5µg
Human CYR61	100-149	E.coli	39.5 kDa	20µg

**Anti-Cystatin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Cystatin-A	101-M366	Mouse	WB	100µg
Anti-human Cystatin-B	101-M367	Mouse	WB, N	100µg
Anti-mouse Cystatin-B	103-M366	Rat	WB, IHC(F)	100µg
Anti-human Cystatin-C	101-M368	Mouse	WB	100µg
Anti-mouse Cystatin-C	103-M367	Rat	WB	100µg
Anti-human Cystatin-D	101-M369	Mouse	WB, N	100µg
Anti-human Cystatin-E-M	101-M370	Mouse	WB, IHC(P), N	100µg
Anti-mouse Cystatin-E-M	103-M368	Rat	WB, N	100µg
Anti-mouse Cystatin-H	103-M369	Rat	WB, N	100µg
Anti-human Cystatin-S	101-M371	Mouse	WB	100µg
Anti-human Cystatin-SA	101-M372	Mouse	WB	100µg
Anti-human Cystatin-SN	101-M373	Mouse	WB	100µg

**Anti-DAN****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human DAN	101-M374	Mouse	WB	100µg
Anti-mouse DAN	103-M217	Rat	WB	100µg

**Anti-DCIR****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human DCIR	101-M375	Mouse	WB, FC	100µg

**Anti-Decorin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Decorin	101-M376	Mouse	WB, IHC(P)	100µg
Anti-mouse Decorin	103-M218	Rat	WB	100µg

**Anti-mouse Dectin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Dectin-1	103-M370	Rat	WB	100µg
Anti-mouse Dectin-2	103-M371	Rat	WB	100µg

**Anti-mouse Dendritic Cell Marker***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Dendritic Cell M.	103-M146	Rat	FC, IHC	200µg

**Anti-mouse Desert Hedgehog (N-terminal)***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse D. Hedgehog	103-M287	Rat	WB	100µg

**Anti-mouse Desert Hedgehog (C-terminal)***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse D. Hedgehog	103-M228	Rat	WB	100µg

**Anti-human Desmoglein***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Desmoglein-1	101-M377	Mouse	WB	100µg
Anti-human Desmoglein-2	101-M378	Mouse	WB	100µg
Anti-human Desmoglein-3	101-M379	Mouse	WB, IHC(P)	100µg

**Dkk-1****Dickkopf-related protein-1**

Product	Catalog#	Source	MW	Size
Human Dkk-1	100-407S	HEK293 cells	35-40 kDa	2µg
Human Dkk-1	100-407	HEK293 cells	35-40 kDa	10µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Dkk-1	101-M380	Mouse	WB	100µg

**Dkk-3****Dickkopf-related protein-3**

Product	Catalog#	Source	MW	Size
Human Dkk-3	100-408S	CHO cells	39-49 kDa	2µg
Human Dkk-3	100-408	CHO cells	39-49 kDa	10µg

**Biological Activity:** Determined by its ability to inhibit alkaline phosphatase activity in differentiating MC3T3 E1 cells. The expected ED50 for this effect is 2.0–4.0 ng/ml.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Dkk-3	103-M372	Rat	WB	100µg

**sDLL-1**

Product	Catalog#	Source	MW	Size
Human sDLL-1	S01-060S	293 T cells	57-60 kDa	5µg
Human sDLL-1	S01-060	293 T cells	57-60 kDa	25µg

**Biological Activity:** Determined by the dose dependent growth suppression of the human acute monocytic leukemia cell line, THP-1. sDLL-1 inhibits the proliferation in THP-1 cells using a concentration of 3.0-5.0 µg/ml.

**Anti-human DLL-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human DLL-1	101-M381	Mouse	WB	100µg

**sDLL-4**

Product	Catalog#	Source	MW	Size
Human sDLL-4	S01-051S	293 cells	54.0 kDa	5µg
Human sDLL-4	S01-051	293 cells	54.0 kDa	25µg

**Biological Activity:** The sDLL-4, when immobilized at concentrations >1.5 µg/mL will inhibit myogenesis in C2C12 cells.

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**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse DLL-4	103-M373	Rat	WB	100µg

**Anti-human DNAM-1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human DNAM-1	101-M382	Mouse	WB, N	100µg

**Anti-Dtk****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Dtk	101-M383	Mouse	WB, IHC(P)	100µg
Anti-mouse Dtk	103-M186	Rat	FC, IHC	100µg

**Anti-human E-Cadherin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human E-Cadherin	101-M132	Mouse	WB, IHC	100µg

**Endothelial Cell Growth Factor Supplement (Full)**

☞ PP

→ For the preparation of 500ml endothelial cell growth medium.

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Size</b>
→ With VEGF <sub>165</sub> for microvascular endothelial cells:			
ECGFpro1	300-090-B	Bovine	6mg
ECGFpro-1 +Heparin	300-090H-B	Bovine	6mg
→ With VEGF-C for lymphatic endothelial cells:			
ECGFpro2	300-090-L	Bovine	6mg
ECGFpro2 +Heparin	300-090H-L	Bovine	6mg

**Biological activity/ Working concentration:** Optimum concentration for human microvascular endothelial cells (HMEC) range from 100-300 µg/ml, optimal concentration with heparin (50 µg/ml) is at 10-20 µg/ml. Bovine ECGFpro1 and ECGFpro2 are effective on mouse, bovine and human cells. Each vial contains enough growth factor supplement and VEGF-A or VEGF-C for optimal growth conditions for blood or lymph endothelial cells.

**ECGF****Endothelial Cell Growth Factor**

☞ PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Size</b>
ECGF	300-090	Bovine	6mg
ECGF + Heparin	300-090H	Bovine	6mg
ECGF	300-090-5	Bovine	5x 6mg
ECGF + Heparin	300-090H-5	Bovine	5x 6mg
ECGF	300-092	Porcine	6mg
ECGF + Heparin	300-092H	Porcine	6mg
ECGF	300-092-5	Porcine	5x 6mg
ECGF + Heparin	300-092H-5	Porcine	5x 6mg

**Biological activity/ Working concentration:** Optimum concentration for human umbilical vein endothelial cells (HUVEC) range from 100-300 µg/ml, optimal concentration with heparin (50 µg/ml) is at 10-20 µg/ml. As a growth supplement for use in monoclonal antibody production the optimum range is 25 to 100 µg/ml. Bovine and porcine ECGF is effective on mouse, bovine and human cells.

**Anti-human EDA-A2****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EDA-A2	101-M384	Mouse	WB	100µg

**Anti-mouse EDAR (ectodysplasmin receptor)****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse EDAR	103-M219	Rat	WB	100µg

**Anti-human EDG-1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EDG-1	101-M156	Mouse	WB, IHC	100µg

<b>EGF</b>		<b>Epidermal growth factor</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human EGF	100-008	E. coli	6.2 kDa	100µg
Human EGF	100-009	E. coli	6.2 kDa	500µg
Human EGF	PNb-050	Nicotiana benth.	7.0 kDa	250µg
Human EGF	PNb-051	Nicotiana benth.	7.0 kDa	500µg
Mouse EGF	M10-002	E. coli	6.0 kDa	100µg
Mouse EGF	M10-003	E. coli	6.0 kDa	500µg
Rat EGF	R20-072S	E. coli	6.2 kDa	20µg
Rat EGF	R20-072	E. coli	6.2 kDa	100µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is 0.05-0.1 ng/ml [human] and by a cell proliferation assay using Balb/c 3T3 cells is < 0.1 ng/ml [ $> 1 \times 10^7$  units/mg] (mouse, rat).

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EGF	102-P06	Rabbit	E, WB, N	100µg
Anti-mouse EGF	103-P45G	Goat	E, WB,	100µg
Anti-rat EGF	104-P13	Rabbit	E, WB, N	100µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EGF	101-M385	Mouse	WB, IHC(F), N	100µg
Anti-mouse EGF	103-M220	Rat	WB	100µg

#### **Anti-human / mouse EGFL-7**

☞ PP

see anti-human / mouse VE-Statins!

#### **sEGFR** soluble Epidermal growth factor receptor

☞ PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sEGFR	S01-040	Insect cells	80.0 kDa	25µg

#### **Anti-EGFR**

##### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EGFR	101-M386	Mouse	WB	100µg
Anti-mouse EGFR	103-M178	Rat	WB, IHC	100µg

#### **EG-VEGF** Endocrine gland-derived Vascular endothelial growth factor

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human EG-VEGF	100-150S	E. coli	9.6 kDa	5µg
Human EG-VEGF	100-150	E. coli	9.6 kDa	20µg
Mouse EG-VEGF	M10-236S	E. coli	9.6 kDa	5µg
Mouse EG-VEGF	M10-236	E. coli	9.6 kDa	20µg

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EG-VEGF	102-P113G	Goat	E, WB	100µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EG-VEGF	101-M158	Mouse	WB, IHC	100µg

#### **EMAP-II** Endothelial-monocyte activating polypeptide II

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human EMAP-II	100-010	E. coli	18.3 kDa	20µg

**Biological Activity:** Determined by the apoptotic effect on MCF-7 cells (human breast carcinoma cells) using a concentration of 20-40 ng/ml.

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EMAP-II	102-P114G	Goat	E, WB	100µg

#### **Anti-human Emilin-1** Elastin microfibril interfacier 1

☞ PP

##### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Emilin-1 #11A8	103-M80	Rat	WB, IHC	100µg

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**Anti-human Emilin-2**      **Elastin microfibril interfacier 2**      **PP**
**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Emilin-2 #B3	101-M716	Mouse	WB, IHC	100µg

**ENA-78/LIX (CXCL5)**      **Epithelial neutrophil activating peptide-78**

Product	Catalog#	Source	MW	Size
Human ENA-78	100-011S	E. coli	8.0 kDa	5µg
Human ENA-78	100-011	E. coli	8.0 kDa	20µg
Human ENA-78 (8-78aa)	100-333S	E. coli	7.8 kDa	5µg
Human ENA-78 (8-78aa)	100-333	E. coli	7.8 kDa	20µg
Mouse LIX (70 aa)	M10-030	E. coli	9.8 kDa	20µg
Mouse LIX (93 aa)	M10-114	E. coli	9.8 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration of 5-10 ng/ml (human form) and 10-100 ng/ml (mouse form).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human ENA-78	102-P07	Rabbit	E, WB	100µg
Anti-mouse LIX	103-P26	Rabbit	E, WB	100µg

**Endocan/ESM-1**      **PP**

Product	Catalog#	Source	MW	Size
Human Endocan/ESM-1	300-062	Insect cells	19.2 kDa	50µg
Mouse Endocan/ESM-1	M30-062	Insect cells	19.1 kDa	50µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Endocan/ESM-1	102-PA44S	Rabbit	WB, IF	100µg
Anti-human Endocan/ESM-1	102-PA44	Rabbit	WB, IF	200µg
Anti-mouse Endocan/ESM-1	103-PA44S	Rabbit	WB	100µg
Anti-mouse Endocan/ESM-1	103-PA44	Rabbit	WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Endocan	103-M221	Rat	WB	100µg

**Anti-human Endoglycan**
**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Endoglycan	101-M387	Mouse	WB	100µg

**Endomucin**      **PP**

Product	Catalog#	Source	MW	Size
Human Endomucin, soluble	S01-064	E. coli	20.4 kDa	20µg
Mouse Endomucin, soluble	S01-M64	E. coli	20.4 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human Endomucin	102-PA49S	Rabbit	WB	100µg
Anti-human Endomucin	102-PA49	Rabbit	WB	200µg
Anti-mouse Endomucin	103-PA49S	Rabbit	WB	100µg
Anti-mouse Endomucin	103-PA49	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse Endomucin	103-PA49AG	Rabbit	WB	50µg

**Endostatin**

Product	Catalog#	Source	MW	Size
Human Endostatin	100-334S	E. coli	20.2 kDa	20µg
Human Endostatin	100-334	E. coli	20.2 kDa	100µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Endostatin	102-P226	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Endostatin	103-M200	Rat	WB, IHC	100µg

## Enterokinase Serine protease 7

Product	Catalog#	Source	MW	Size
Human Enterokinase	100-409S	CHO cells		10µg
Human Enterokinase	100-409	CHO cells		50µg

## Anti-human Enteropeptidase

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Enteropeptidase	101-M388	Mouse	WB	100µg

## Eotaxin-2/CCL24

Product	Catalog#	Source	MW	Size
Human Eotaxin-2	100-013S	E. coli	8.8 kDa	5µg
Human Eotaxin-2	100-013	E. coli	8.8 kDa	20µg
Mouse Eotaxin-2	M10-059S	E. coli	10.3 kDa	5µg
Mouse Eotaxin-2	M10-059	E. coli	10.3 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood eosinophils using a concentration of 50-100 ng/ml (human), to chemoattract mouse lymphocytes using a concentration range of 10-100 ng/ml (mouse).

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human Eotaxin-2	102-P09G	Goat	E, WB, N	100µg
Anti-mouse Eotaxin-2	103-P48G	Goat	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Eotaxin-2	101-M01	Mouse	E	500µg

## Eotaxin-3/CCL26

Product	Catalog#	Source	MW	Size
Human Eotaxin-3	100-014S	E. coli	8.4 kDa	5µg
Human Eotaxin-3	100-014	E. coli	8.4 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human CCR3/HEK 293 cells. The maximum activity was achieved at 2 µg/ml.

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human Eotaxin-3	102-P10G	Goat	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Eotaxin-3	101-M19	Mouse	E	500µg

## Anti-human EpCAM

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human EpCAM	101-M389	Mouse	WB, IHC(F)	100µg

## Anti-EphA1 / A2 / A3 / A4 / A6 / A7

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human EphA1	101-M390	Mouse	WB, IHC	100µg
Anti-mouse EphA2	103-M162	Rat	WB, IHC	100µg
Anti-mouse EphA3	103-M164	Rat	WB, IHC	100µg
Anti-mouse EphA4	103-M166	Rat	WB, IHC	100µg
Anti-mouse EphA6	103-M168	Rat	WB, IHC	100µg
Anti-mouse EphA7	103-M170	Rat	WB, IHC	100µg

## Anti-mouse EphB4 / B6

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse EphB4	103-M172	Rat	WB, IHC	100µg
Anti-mouse EphB6	103-M174	Rat	WB, IHC	100µg

**Anti-Ephrin-A1 / A2 / A3 / A4 / B1 / B3****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Ephrin-A1	103-M375	Rat	WB	100µg
Anti-mouse Ephrin-A2	103-M376	Rat	WB	100µg
Anti-human Ephrin-A3	101-M391	Mouse	WB	100µg
Anti-human Ephrin-A4	101-M392	Mouse	WB	100µg
Anti-mouse Ephrin-A4	103-M377	Rat	WB	100µg
Anti-mouse Ephrin-B1	103-M378	Rat	WB	100µg
Anti-human Ephrin-B3	101-M393	Mouse	WB	100µg

**Epigen**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Epigen	100-335S	E. coli	7.9 kDa	5µg
Human Epigen	100-335	E. coli	7.9 kDa	25µg

**Biological Activity:** Determined by the dose-dependent stimulation of the proliferation of mouse Balb/c 3T3 cells. The expected ED<sub>50</sub> for this effect is 150-300 ng/ml.

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Epigen	103-M379	Rat	WB	100µg

**Epiregulin**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Epiregulin	100-336S	E. coli	5.6 kDa	5µg
Human Epiregulin	100-336	E. coli	5.6 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse Balb/c 3T3 cells is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10<sup>5</sup> units/mg.

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Epiregulin	101-M394	Mouse	WB	100µg

**Anti-human EPO receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human EPO	101-M128	Mouse	WB, IHC	100µg

**Anti-human ErbB2 / B3 / B4****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ErbB2 (#1K11)	101-M135	Mouse	WB, IHC	100µg
Anti-human ErbB3	101-M395	Mouse	WB, IHC(P)	100µg
Anti-human ErbB4	101-M396	Mouse	WB	100µg

**Human ESAM**

Endothelial cell-selective adhesion molecule

☞ PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ESAM (fragment)	300-057	E. coli	30 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ESAM	102-PA42S	Rabbit	WB, IF	100µg
Anti-human ESAM	102-PA42	Rabbit	WB, IF	200µg

**Human E-Selectin ligand 1 (ESL-1)**

☞ PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ESL-1	S01-066	E. coli	28.3 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ESL-1	102-PA48S	Rabbit	WB	100µg
Anti-human ESL-1	102-PA48	Rabbit	WB	200µg

**E-Selectin**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human E-Selectin	100-410S	CHO cells	58.6 kDa	10µg
Human E-Selectin	100-410	CHO cells	58.6 kDa	50µg

**Biological Activity:** by its Determined ability to chemoattract human CCR3/HEK 293 cells. The maximum activity was achieved at 2 µg/ml.



**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human E-Selectin	101-M129	Mouse	WB, IHC	100µg
Anti-mouse E-Selectin	103-M129	Rat	WB, IHC	200µg

**Exodus-2/CCL21**

Product	Catalog#	Source	MW	Size
Human Exodus-2	100-015S	E. coli	12.2 kDa	5µg
Human Exodus-2	100-015	E. coli	12.2 kDa	20µg
Mouse Exodus-2	M10-005S	E. coli	12.0 kDa	5µg
Mouse Exodus-2	M10-005	E. coli	12.0 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human CCR3/HEK 293 cells. The maximum activity was achieved at 2 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Exodus-2	102-P11	Rabbit	E, WB, N	100µg
Anti-mouse Exodus-2	103-P03	Rabbit	E, WB, N	100µg

**Human FABP4**

Fatty acid-binding protein, adipocyte

☞ PP

Product	Catalog#	Source	MW	Size
Human FABP4	400-018S	E. coli	15.7 kDa	5µg
Human FABP4	400-018	E. coli	15.7 kDa	25µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human FABP4	102-PA134S	Rabbit	WB	100µg
Anti-human FABP4	102-PA134	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human FABP4	102-PA134AG	Rabbit	WB	50µg

**sFas Ligand**

Soluble Fas ligand

Synonyms: TNFSF6, sFasL, CD95L, Apo I Ligand, APTL

Product	Catalog#	Source	MW	Size
Human sFas Ligand	100-157S	CHO cells	17.9 kDa	2µg
Human sFas Ligand	100-157	CHO cells	17.9 kDa	10µg

**Biological Activity:** Determined by its ability to induce cytotoxicity in Jurkat cells in the absence of any cross-linking. The ED<sub>50</sub> for this effect is ≤ 10 ng/ml [specific activity: ≥ 1 x 10<sup>5</sup> units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human sFas Ligand	102-P120G	Goat	E, WB, N	100µg

**Anti-human Fas****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Fas (#12J3)	101-M134	Mouse	WB, IHC	100µg

**sFas Receptor**

soluble Fas receptor

Product	Catalog#	Source	MW	Size
Human sFas Receptor	S01-030S	E. coli	17.6 kDa	5µg
Human sFas Receptor	S01-030	E. coli	17.6 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to inhibit the cytotoxicity of Jurkat cells is between 10-15 µg/ml in the presence of 2 ng/ml of hFasL.

**Anti-human alpha-Fetoprotein****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human alpha-Fetoprotein	101-M397	Mouse	WB	100µg

**Fetuin-A/AHSG**

Product	Catalog#	Source	MW	Size
Human Fetuin-A	100-140S	HEK293	45-55 kDa	10µg
Human Fetuin-A	100-140	HEK293	45-55 kDa	50µg

**Biological Activity:** Determined by its ability to inhibit Cathespin V cleavage of a fluorogenic peptide substrate Z-LR-AMC (RLUs). The expected IC<sub>50</sub> is ≤ 100nM.

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**Anti-Fetuin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Fetuin-A	101-M398	Mouse	WB	100µg
Anti-mouse Fetuin-A	103-M381	Rat	WB	100µg
Anti-human Fetuin-B	101-M399	Mouse	WB	100µg

**FGF-1 (acidic)****Fibroblast growth factor-1 (acidic)**

Synonyms: Heparin-binding growth factor-1 (HBGF-1), Beta-endothelial cell growth factor

Product	Catalog#	Source	MW	Size
Human FGF-acidic	100-016S	E. coli	16.0 kDa	10µg
Human FGF-acidic	100-016	E. coli	16.0 kDa	50µg
Mouse FGF-acidic	M10-045S	E. coli	15.9 kDa	10µg
Mouse FGF-acidic	M10-045	E. coli	15.9 kDa	50µg
Rat FGF-acidic	R20-018S	E. coli	15.9 kDa	10µg
Rat FGF-acidic	R20-018	E. coli	15.9 kDa	50µg

**Biological Activity:** Human: The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is < 10 ng/ml [ $> 1 \times 10^5$  units/mg]. Mouse: The ED<sub>50</sub> was determined by a cell proliferation assay using balb/c 3T3 cells is  $\leq 0.2$  ng/ml in the presence of 10 µg/ml heparin [ $\geq 5 \times 10^6$ ]. Rat: Determined by a cell proliferation assay using balb/c 3T3 cells. The expected ED<sub>50</sub> is  $\leq 0.1$  ng/ml, in the presence of 10 µg/ml heparin [ $\geq 1 \times 10^7$  units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human FGF-acidic	102-P12	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human FGF-acidic	101-M400	Mouse	WB	100µg

**FGF-2 (basic)****Fibroblast growth factor-2 (basic)**

☞ PP

Product	Catalog#	Source	MW	Size
Human FGF-2	300-001	E. coli	16.5 kDa	10µg
Human FGF-2	300-002	E. coli	16.5 kDa	25µg
Human FGF-2	300-003	E. coli	16.5 kDa	50µg
Human FGF-2 (146 aa)	100-411S	E. coli	16.4 kDa	10µg
Human FGF-2 (146 aa)	100-411	E. coli	16.4 kDa	50µg
Mouse FGF-2	M30-014	E. coli	16.3 kDa	10µg
Mouse FGF-2	M30-015	E. coli	16.3 kDa	50µg
Rat FGF-2	R20-059	E. coli	16.3 kDa	10µg
Rat FGF-2	R20-060	E. coli	16.3 kDa	50µg

**Biological Activity:** The activity was determined by stimulation of cell proliferation in primary human vascular endothelial cells. The ED<sub>50</sub> for this effect is 0.4-1.0 ng/ml.

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human FGF-2#	102-PA08S	Rabbit	E, WB, N	100µg
Anti-human FGF-2#	102-PA08	Rabbit	E, WB, N	200µg
Anti-human FGF-2	102-P13	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human FGF-2	101-M401	Mouse	WB	100µg
Anti-human FGF-2	101-M70	Mouse	E	500µg

# recombinant human FGF-2

**Anti-human FGF-3****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human FGF-3	101-M408	Mouse	WB, IHC (P/F)	100µg

**FGF-4****Fibroblast growth factor-4**

☞ PP

Synonyms: Heparin-binding growth factor-1 (HBGF-5), Smag-82

Product	Catalog#	Source	MW	Size
Human FGF-4	300-130	E. coli	19.7 kDa	5µg
Human FGF-4	300-131	E. coli	19.7 kDa	25µg
Mouse FGF-4	M30-130	E. coli	19.7 kDa	5µg
Mouse FGF-4	M30-131	E. coli	19.7 kDa	25µg

**FGF-5****Fibroblast growth factor-5**

Synonyms: Heparin-binding growth factor-1 (HBGF-5), Smag-82

Product	Catalog#	Source	MW	Size
Human FGF-5	100-018S	E. coli	27.6 kDa	10µg
Human FGF-5	100-018	E. coli	27.6 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is < 10 ng/ml [ $> 1 \times 10^5$  units/mg].

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**FGF-9 Fibroblast growth factor-9**

Product	Catalog#	Source	MW	Size
Human FGF-9	100-021S	E. coli	23.4 kDa	5µg
Human FGF-9	100-021	E. coli	23.4 kDa	20µg
Mouse FGF-9	M10-006S	E. coli	23.3 kDa	2µg
Mouse FGF-9	M10-006	E. coli	23.3 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is 0.5-1.0 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse FGF-9	103-P04	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human FGF-9	101-M413	Mouse	WB	100µg

**FGF-10 Fibroblast growth factor-10** 

**Synonyms:** FGFA, Keratinocyte growth factor-2

Product	Catalog#	Source	MW	Size
Human FGF-10	100-022S	E. coli	19.3 kDa	5µg
Human FGF-10	100-022	E. coli	19.3 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of 4MBr-5 cell proliferation.

**FGF Fibroblast growth factor family members**

**Synonyms:** See FGF chart in scientific section.


Product	Catalog#	Source	MW	Size
Human FGF-6	100-019S	E. coli	18.7 kDa	5µg
Human FGF-6	100-019	E. coli	18.7 kDa	25µg
Human FGF-7/KGF	100-163S	E. coli	18.9 kDa	2µg
Human FGF-7/KGF	100-163	E. coli	18.9 kDa	10µg
Human FGF-8	100-020S	E. coli	22.4 kDa	5µg
Human FGF-8	100-020	E. coli	22.4 kDa	25µg
Human FGF-12-His	100-391	E. coli	22.6 kDa	10µg
Human FGF-16	100-023S	E. coli	23.7 kDa	5µg
Human FGF-16	100-023	E. coli	23.7 kDa	25µg
Human FGF-17	100-024S	E. coli	22.7 kDa	5µg
Human FGF-17	100-024	E. coli	22.7 kDa	25µg
Human FGF-18	100-025S	E. coli	21.2 kDa	5µg
Human FGF-18	100-025	E. coli	21.2 kDa	25µg
Human FGF-19	100-169S	E. coli	21.8 kDa	5µg
Human FGF-19	100-169	E. coli	21.8 kDa	25µg
Human FGF-20	100-170S	E. coli	23.2 kDa	3µg
Human FGF-20	100-170	E. coli	23.2 kDa	15µg
Human FGF-21	100-337S	E. coli	19.5 kDa	5µg
Human FGF-21	100-337	E. coli	19.5 kDa	25µg
Human FGF-23	100-375S	E. coli	22.5 kDa	5µg
Human FGF-23	100-375	E. coli	22.5 kDa	20µg
Mouse FGF-23	M10-237S	E. coli	25.5 kDa	5µg
Mouse FGF-23	M10-237	E. coli	25.5 kDa	20µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human FGF-4	102-P258	Rabbit	E, WB	100µg
Anti-human FGF-7/KGF	102-P123	Rabbit	E, WB, N	100µg
Anti-human FGF-10	102-P124G	Goat	E, WB	100µg
Anti-human FGF-16	102-P125G	Goat	E, WB	100µg
Anti-human FGF-17	102-P126	Rabbit	E, WB, N	100µg
Anti-human FGF-17	102-P126G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human FGF-3	101-M408	Mouse	WB, IHC(P), N	100µg
Anti-human FGF-4	101-M409	Mouse	WB, N	100µg
Anti-human FGF-5	101-M410	Mouse	WB, IHC(P)	100µg
Anti-human FGF-5	101-M71	Mouse	E	500µg
Anti-human FGF-6	101-M411	Mouse	WB, N	100µg
Anti-human FGF-8	101-M412	Mouse	WB, IHC(P), N	100µg
Anti-human FGF-10	101-M402	Mouse	WB	100µg
Anti-human FGF-11	101-M403	Mouse	WB	100µg
Anti-human FGF-16	101-M404	Mouse	WB	100µg
Anti-human FGF-17	101-M405	Mouse	WB, IHC(F)	100µg
Anti-human FGF-19	101-M406	Mouse	WB, IHC(P)	100µg
Anti-human FGF-22	101-M407	Mouse	WB, N	100µg

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**Anti-human FGF-BP***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGF-BP	101-M414	Mouse	WB	100µg

**sFGFR-1 alpha (IIIc)-Fc****soluble Fibroblast growth factor receptor-1**☞ *PP*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sFGFR-1-Fc	SFC-015	Insect cells	190.0 kDa	10µg
Human sFGFR-1-Fc	SFC-016	Insect cells	190.0 kDa	50µg

**Anti-human FGFR-1***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-1	101-M415	Mouse	WB	100µg

**sFGFR-2 (IIIc)-Fc****soluble Fibroblast growth factor receptor-2**☞ *PP*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sFGFR-2-Fc	SFC-017	Insect cells	195.0 kDa	10µg
Human sFGFR-2-Fc	SFC-018	Insect cells	195.0 kDa	50µg

**Anti-human FGFR-2 neutralizing antibody**☞ *PP**Fab Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-2	500-004	E. coli	N, FC	100µg

**Anti-FGFR-2***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-2	101-M416	Mouse	WB	100µg
Anti-mouse FGFR-2	103-M180	Rat	WB, IHC	100µg

**sFGFR-3 (IIIc)-Fc****soluble Fibroblast growth factor receptor-3**☞ *PP*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sFGFR-3-Fc	SFC-019	Insect cells	190.0 kDa	10µg
Human sFGFR-3-Fc	SFC-020	Insect cells	190.0 kDa	50µg

**Anti-human FGFR-3 neutralizing antibody**☞ *PP**Fab Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-3	500-002	E. coli	N, FC	100µg

**Anti-human FGFR-3***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-3	101-M417	Mouse	WB, IHC(P)	100µg

**sFGFR-4-Fc****Fibroblast growth factor receptor-4**☞ *PP*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sFGFR-4-Fc	SFC-021	Insect cells	170.0 kDa	10µg
Human sFGFR-4-Fc	SFC-022	Insect cells	170.0 kDa	50µg

*Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human FGFR-4	101-M418	Mouse	WB	100µg

**Anti-mouse FGFR-5 beta***Monoclonal Antibodies*

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse FGFR-5 beta	103-M382	Rat	WB	100µg

## Anti-mouse FLRG Follistatin-related Gene Protein

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse FLRG	103-M222	Rat	WB	100µg

## sFlt-1 *fms*-like tyrosine kinase-1

see sVEGFR-1!

## flt3-Ligand *fms*-related tyrosine kinase 3 ligand

Product	Catalog#	Source	MW	Size
Human flt3-Ligand	100-026S	E. coli	17.6 kDa	2µg
Human flt3-Ligand	100-026	E. coli	17.6 kDa	10µg
Human flt3-Ligand	100-026-SC	E. coli	17.6 kDa	50µg
Human flt3-Ligand	PNb-039	Nicotiana benth.	17.6 kDa	5µg
Human flt3-Ligand	PNb-040	Nicotiana benth.	17.6 kDa	10µg
Mouse flt3-Ligand	M10-062S	E. coli	16.4 kDa	2µg
Mouse flt3-Ligand	M10-062	E. coli	16.4 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human AML5 cells is < 1 ng/ml [ $> 1 \times 10^6$  units/mg] (human) and by its ability to generate CD11c+ splenic dendritic cells in vivo in C57B1/6 mice (females, approx. 12 weeks old). To obtain the desired affect, mice were treated with approximately 25 µg of flt3-ligand once daily for 9 consecutive days via intraperitoneal injection (mouse).

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human flt3-Ligand	102-P14	Rabbit	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human flt3-Ligand	101-M420	Mouse	WB, N	100µg

## Anti-mouse Flt-3

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Flt-3	101-M419	Mouse	WB	100µg
Anti-mouse Flt-3	103-M182	Rat	WB, IHC	100µg

## sFLT-4 *fms*-like tyrosine kinase-4

see sVEGFR-3!

## Follistatin

Product	Catalog#	Source	MW	Size
Human Follistatin	PNb-052	E. coli	31.5 kDa	5µg
Human Follistatin	PNb-053	E. coli	31.5 kDa	50µg
Human Follistatin*	100-172S	E. coli	31.5 kDa	5µg
Human Follistatin*	100-172	E. coli	31.5 kDa	20µg

**Biological Activity\*:** Determined by its ability to neutralize Activin A inhibitory effect of mouse MPC-11 cells. The expected ED<sub>50</sub> is 0.1-0.4 µg/ml in the presence of 7.5 ng/ml Activin A.

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human Follistatin	102-P227	Rabbit	E, WB	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Follistatin	101-M421	Mouse	WB, IHC(P)	100µg

## Anti-Follistatin like protein 1


### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-hu Follistatin-like 1	101-M422	Mouse	WB	100µg
Anti-mo Follistatin-like 1	103-M384	Rat	WB	100µg

## Fractalkine/CX3CL1

Product	Catalog#	Source	MW	Size
Human Fractalkine	100-173S	E. coli	8.5 kDa	5µg
Human Fractalkine	100-173	E. coli	8.5 kDa	20µg
Rat Fractalkine	R20-046S	E. coli	8.7 kDa	5µg
Rat Fractalkine	R20-046	E. coli	8.7 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes and total human T cells using a concentration range of 1-10 ng/ml (human), to chemoattract human monocytes using a concentration range of 5.0-10.0 ng/ml (rat).

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**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Fractalkine	102-P15	Rabbit	E, WB	100µg

**Anti-mouse Frizzled****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Frizzled-1	103-M385	Rat	WB	100µg
Anti-mouse Frizzled-2	103-M386	Rat	WB	100µg
Anti-mouse Frizzled-6	103-M387	Rat	WB	100µg
Anti-mouse Frizzled-7	103-M388	Rat	WB	100µg
Anti-mouse Frizzled-8	103-M389	Rat	WB	100µg

**FRP-1 soluble Frizzled Related Protein-1**

Product	Catalog#	Source	MW	Size
Human sFRP-1	S01-068S	HeLa cells		5µg
Human sFRP-1	S01-068	HeLa cells		20µg

**Biological Activity:** Determined by its ability to inhibit BMP-2 proliferation effect of ATDC-5 cells. The expected ED<sub>50</sub> is 0.3–0.5 µg/ml.

**Furin**

Product	Catalog#	Source	MW	Size
Human Furin	100-143S	Insect cells	61.7 kDa	2µg
Human Furin	100-143	Insect cells	61.7 kDa	10µg

**Biological Activity:** Measured by its ability to cleave the fluorogenic peptide substrate Boc-Arg-Val-Arg-Arg-AMC (Bachem Catalog# I-1645.0025).

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Furin	101-M423	Mouse	WB, IHC(P)	100µg

**gAcrp30**

Product	Catalog#	Source	MW	Size
Human gAcrp30/Adipolean	100-174S	E. coli	16.6 kDa	5µg
Human gAcrp30/Adipolean	100-174	E. coli	16.6 kDa	25µg
Mouse gAcrp30	M10-063S	E. coli	16.6 kDa	5µg
Mouse gAcrp30	M10-063	E. coli	16.6 kDa	25µg
Human gAcrp30 Variant	100-174a S	E. coli	18.1 kDa	5µg
Human gAcrp30 Variant	100-174a	E. coli	18.1 kDa	25µg

**Biological Activity:** Determined by its ability to inhibit the proliferation of mouse myeloid cell lines M1. The ED<sub>50</sub> for this effect is < 3 µg/ml, corresponding to a specific activity of 3.3 x 10<sup>6</sup> units/mg. (*Variant*) Determined by a cytotoxicity assay using M1 cells. The expected ED<sub>50</sub> for this effect is 0.5-1.0 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human gAcrp30	102-P129G	Goat	E, WB	100µg
Anti-human gAcrp30 Vari.	102-P130	Rabbit	E, WB	100µg

**Galectin-1**

Product	Catalog#	Source	MW	Size
Human Galectin-1*	100-175S	E. coli	14.5 kDa	10µg
Human Galectin-1*	100-175	E. coli	14.5 kDa	50µg
Human Galectin-1	400-015	E. coli	14.5 kDa	50µg

**Biological Activity:** \*Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human Galectin-1	102-PA131S	Rabbit	WB	100µg
Anti-human Galectin-1	102-PA131	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Galectin-1	102-PA131AG	Rabbit	WB	50µg
Anti-human Galectin-1	102-P131	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Galectin-1	103-M223	Rat	WB, IHC	100µg

**Galectin**

**Synonyms:** Galactose-specific lectin-3, IgE-binding protein, MAC2, L-29, CPB-35

Product	Catalog#	Source	MW	Size
Human Galectin-3	100-176S	E. coli	26.0 kDa	10µg
Human Galectin-3	100-176	E. coli	26.0 kDa	50µg

**Biological Activity:** Determined by its ability to chemoattract human blood monocytes. Chemotactic activity was observed at a concentration of 2.5 µg/ml with a peak response obtained at 250 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Galectin-3	102-P228	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Galectin-3	101-M424	Mouse	WB	100µg
Anti-mouse Galectin-3	103-M224	Rat	WB	100µg
Anti-human Galectin-4	101-M425	Mouse	WB	100µg
Anti-human Galectin-7	101-M426	Mouse	WB	100µg
Anti-mouse Galectin-7	103-M225	Rat	WB, IHC	100µg
Anti-human Galectin-8	101-M427	Mouse	WB	100µg

**Anti-Gas6****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Gas6	101-M428	Mouse	WB	100µg
Anti-mouse Gas6	103-M226	Rat	WB	100µg

**GASP-1**

Product	Catalog#	Source	MW	Size
Human GASP-1	100-090S	CHO cells	55-66 kDa	5µg
Human GASP-1	100-090	CHO cells	55-66 kDa	25µg

**Biological Activity:** Determined by its ability to inhibit human Myostatin (GDF-8) activity in MCP-11 cells. The ED<sub>50</sub> for this effect is 2.5-4.0 pg/ml in the presence of 5ng/ml of human Myostatin (GDF-8).

**Anti-human GASP2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human GASP2	101-M429	Mouse	WB	100µg

**GCP-2/CXCL6****Granulocyte chemotactic protein-2**

Product	Catalog#	Source	MW	Size
Human GCP-2	100-028S	E. coli	7.9 kDa	5µg
Human GCP-2	100-028	E. coli	7.9 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 10-50 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human GCP-2	102-P16	Rabbit	E, WB, N	100µg

**G-CSF****Granulocyte colony-stimulating factor**

**Synonyms:** CSF-3, MG-1-1G, GM-CSFβ, Pluripoietin

Product	Catalog#	Source	MW	Size
Human G-CSF	100-029S	E. coli	18.7 kDa	2µg
Human G-CSF	100-029	E. coli	18.7 kDa	10µg
Mouse G-CSF	M10-007S	E. coli	19.0 kDa	2µg
Mouse G-CSF	M10-007	E. coli	19.0 kDa	10µg
Rat G-CSF	R20-074S	E. coli	21.6 kDa	2µg
Rat G-CSF	R20-074	E. coli	21.6 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of mouse M-NFS-60 cells is < 0.1 ng/ml [ $>1 \times 10^7$  units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human G-CSF	102-P17	Rabbit	E, WB, N	100µg
Anti-mouse G-CSF	103-P05	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human G-CSF	101-M430	Mouse	WB, N	100µg
Anti-mouse G-CSF	103-M390	Rat	WB, N	100µg

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**Anti-human G-CSF Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human G-CSF R	101-M431	Mouse	WB, FC	100µg

**GDF-2 Growth and differentiation factor-2**

Product	Catalog#	Source	MW	Size
Human GDF-2	100-383S	CHO cells	24.1 kDa	2µg
Human GDF-2	100-383	CHO cells	24.1 kDa	10µg

**GDF-3 Growth and differentiation factor-3**

Product	Catalog#	Source	MW	Size
Human GDF-3	100-179S	E. coli	26.0 kDa	5µg
Human GDF-3	100-179	E. coli	26.0 kDa	20µg

**Biological Activity:** Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The ED<sub>50</sub> for this effect is 100-150 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human GDF-3	102-P229	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse GDF-3	103-M391	Rat	WB	100µg

**GDF-5 Growth and differentiation factor-5**

Product	Catalog#	Source	MW	Size
Human GDF-5	100-389	E. coli	26.8 kDa	50µg
Mouse GDF-5	M10-094S	E. coli	27.0 kDa	10µg
Mouse GDF-5	M10-094	E. coli	27.0 kDa	50µg

**Biological Activity:** Human: Induction of alkaline phosphatase activity in ATDC5 cells (ED<sub>50</sub>: 40Nm). Mouse: Determined by its ability to induce alkaline phosphatase production by ATDC-5 cells. The expected ED<sub>50</sub> for this effect is 1.0-2.0 mg/ml.

**Anti-mouse GDF-5****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse GDF-5	103-M392	Rat	WB, N	100µg

**GDF-7 Growth and differentiation factor-7**

Product	Catalog#	Source	MW	Size
Human GDF-7	100-134S	E. coli	28.0 kDa	2µg
Human GDF-7	100-134	E. coli	28.0 kDa	10µg

**Biological Activity:** Determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells.

**Anti-mouse GDF-8****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse GDF-8	103-M393	Rat	WB	100µg

**GDF-10 Growth and differentiation factor-10**

Product	Catalog#	Source	MW	Size
Human GDF-10	100-390	E. coli	12.5 kDa	20µg

**GDF-11 Growth and differentiation factor-11**

Product	Catalog#	Source	MW	Size
Human GDF-11	100-181S	E. coli	25.0 kDa	5µg
Human GDF-11	100-181	E. coli	25.0 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to inhibit induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED<sub>50</sub> for this effect is 80-100 ng/ml.

**GDF-15/MIC-1 Growth and differentiation factor-15**

Product	Catalog#	Source	MW	Size
Human GDF-15	100-338S	Cell culture	19.5 kDa	5µg
Human GDF-15	100-338	Cell culture	19.5 kDa	20µg

**Biological Activity:** Determined by a cell inhibition assay using DU-145 cells. The expected ED<sub>50</sub> for this effect is 1.0-2.0 µg/ml.



**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human GDF-15	101-M432	Mouse	WB, FC	100µg

**GDNF**      **Glial-derived neurotrophic factor**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human GDNF	100-030S	E. coli	30.4 kDa	2µg
Human GDNF	100-030	E. coli	30.4 kDa	10µg
Mouse GDNF	M10-116S	E. coli	30.2 kDa	2µg
Mouse GDNF	M10-116	E. coli	30.2 kDa	10µg
Rat GDNF	R20-047S	E. coli	26.0 kDa	2µg
Rat GDNF	R20-047	E. coli	26.0 kDa	10µg

**Biological Activity:** Determined by the dose-dependent dopamine uptake by rat mesencephalic cultures was found to be in the range of 5-10 ng/ml [human]. The ED<sub>50</sub> as determined by the proliferation of rat C6 cells is ≤ 0.2 ng/ml [≥ 5 × 10<sup>6</sup> units/mg] (mouse), by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 0.5 ng/ml [≥ 2 × 10<sup>6</sup> units/mg] (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human GDNF	102-P18	Rabbit	E, WB	100µg

**Anti-GFP****Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-GFP	102-PA84	Rabbit	WB	50µg

**Anti-mouse GFR-4 alpha****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse GFR-4 alpha	103-M394	Rat	E, IHC(F)	100µg

**GITR****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse GITR	103-M208	Rat	WB, IHC	100µg

**GLP-1**      **Glucagon-Like-Peptide 1**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human GLP-1	100-339S	E. coli	3.3 kDa	200µg
Human GLP-1	100-339	E. coli	3.3 kDa	1000µg

**Glu-C**      **Endoproteinase Glu-C**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Staphylococcus Glu-C	100-412S	E. coli	28.8 kDa	50µg
Staphylococcus Glu-C	100-412	E. coli	28.8 kDa	250µg

**Anti-human Glycophorin-A****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Glycophorin-A	101-M433	Mouse	FC, IHC(F)	100µg

**GM-CSF**      **Granulocyte macrophage colony stimulating factor**☞ **PP**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human GM-CSF	400-010S	Insect cells	14.6 kDa	2µg
Human GM-CSF	400-010	Insect cells	14.6 kDa	5µg
Human GM-CSF	400-011	Insect cells	14.6 kDa	20µg
Human GM-CSF	400-011-DC	Insect cells	14.6 kDa	50µg
Human GM-CSF	200-004	E. coli	14.0 kDa	2µg
Human GM-CSF	200-005	E. coli	14.0 kDa	10µg
Human GM-CSF	200-005-DC	E. coli	14.0 kDa	50µg
Human GM-CSF	PNb-032	Nicotiana benth.	14.6 kDa	10µg
Human GM-CSF	PNb-033	Nicotiana benth.	14.6 kDa	20µg
Human GM-CSF	PNb-034	Nicotiana benth.	14.6 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is ≤ 0.1 ng/ml.

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Product	Catalog#	Source	MW	Size
Mouse GM-CSF	M30-012S	E. coli	14.2 kDa	2µg
Mouse GM-CSF	M30-012	E. coli	14.2 kDa	10µg
Mouse GM-CSF	M30-013	E. coli	14.2 kDa	50µg
Mouse GM-CSF*	M30-238S	E. coli	14.2 kDa	10µg
Mouse GM-CSF*	M30-238	E. coli	14.2 kDa	50µg
Rat GM-CSF*	R20-041S	E. coli	14.0 kDa	2µg
Rat GM-CSF*	R20-041	E. coli	14.0 kDa	10µg

**Biological Activity:** \*The ED<sub>50</sub> as determined by the dose-dependent stimulation of proliferation of mouse FDC-P1 cells is < 0.2 ng/ml [ $> 5 \times 10^6$  units/mg] (mouse) and < 0.01 ng/ml [ $> 1.0 \times 10^6$  units/mg] (rat).

#### Polyclonal Antibodies – Protein-A Purified

Product	Catalog#	Source	Application	Size
Anti-mouse GM-CSF	103-PA06S	Rabbit	WB	100µg
Anti-mouse GM-CSF	103-PA06	Rabbit	WB	200µg

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human GM-CSF	102-P19	Rabbit	E, WB, N	100µg
Anti-mouse GM-CSF	103-PA06AG	Rabbit	WB	50µg
Anti-mouse GM-CSF	103-P06	Rabbit	E, WB, N	100µg

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human GM-CSF	101-M434	Mouse	WB, IHC(F), N	100µg
Anti-mouse GM-CSF	103-M395	Rat	WB, N	100µg

### Anti-human GM-CSF Receptor

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human GM-CSF R	101-M435	Mouse	WB	100µg

### GMF-beta

#### Glia Maturation Factor beta

Product	Catalog#	Source	MW	Size
Human GMF-beta	100-340S	E. coli	16.5 kDa	2µg
Human GMF-beta	100-340	E. coli	16.5 kDa	10µg

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human GMF-beta	101-M436	Mouse	WB	100µg

### Anti-human GDNF

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human GDNF	101-M437	Mouse	WB, N	100µg

### Anti-human GDNF Receptor

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-hu GDNF R alpha2	101-M438	Mouse	WB	100µg
Anti-hu GDNF R alpha3	101-M439	Mouse	WB	100µg
Anti-hu GDNF R alpha4	101-M440	Mouse	WB	100µg

### Anti-gp-130

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human gp-130	101-M441	Mouse	WB	100µg
Anti-mouse gp-130	103-M483	Rat	WB	100µg

### Granzyme

Product	Catalog#	Source	MW	Size
Mouse Granzyme-B	M10-117S	Insect cells	28.9 kDa	2µg
Mouse Granzyme-B	M10-117	Insect cells	28.9 kDa	10µg

**Biological Activity:** Determined by its ability to cleave a synthetic chromogenic Granzyme B substrate. The expected specific activity, when using the Ac-IEPD-pNA substrate at 25°C, is greater than 750 nM/min per µg of enzyme.

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Granzyme-B	103-M484	Rat	WB	100µg
Anti-mouse Granzyme-D	103-M396	Rat	WB	100µg
Anti-mouse Granzyme-G	103-M397	Rat	WB	100µg
Anti-human Granzyme-H	101-M442	Mouse	WB	100µg

**Gremlin-1**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Gremlin-1	200-070	E. coli	18.4 kDa	50µg
Mouse Gremlin-1	M30-025	E. coli	18.4 kDa	50µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Gremlin-1	102-PA46S	Rabbit	WB	100µg
Anti-human Gremlin-1	102-PA46	Rabbit	WB	200µg
Anti-mouse Gremlin-1	103-PA46S	Rabbit	WB	100µg
Anti-mouse Gremlin-1	103-PA46	Rabbit	WB	200µg

**GRO-alpha/MGSA, GRO-beta, GRO-gamma**

**Synonyms:** GRO-alpha CXCL1, mouse KC, NAP-3, GRO-1, GRO-beta CXCL2, MGSA-beta, MIP-2, GRO-2, GRO-gamma, CXCL3, MGSA-gamma, MIP-3, GRO-3

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human GRO/MGSA	100-031S	E. coli	7.8 kDa	5µg
Human GRO/MGSA	100-031	E. coli	7.8 kDa	25µg
Mouse KC (CXCL1)	M10-027S	E. coli	7.8 kDa	5µg
Mouse KC (CXCL1)	M10-027	E. coli	7.8 kDa	20µg
Rat GRO/KC (CXCL1)	R20-003S	E. coli	7.8 kDa	5µg
Rat GRO/KC (CXCL1)	R20-003	E. coli	7.8 kDa	25µg
Human GRO-beta (CXCL2)	100-032S	E. coli	7.9 kDa	2µg
Human GRO-beta (CXCL2)	100-032	E. coli	7.9 kDa	10µg
Rat GRO/MIP-2 (CXCL2)	R20-002S	E. coli	7.8 kDa	5µg
Rat GRO/MIP-2 (CXCL2)	R20-002	E. coli	7.8 kDa	25µg
Human GRO-gamma	100-033S	E. coli	7.9 kDa	2µg
Human GRO-gamma	100-033	E. coli	7.9 kDa	10µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human GRO/MGSA	102-P20	Rabbit	E, WB, N	100µg
Anti-mouse KC	103-P23	Rabbit	E, WB	100µg
Anti-rat GRO/KC	104-P20	Rabbit	E, WB	100µg
Anti-human GRO-beta	102-P21	Rabbit	E, WB, N	100µg
Anti-rat GRO-beta/MIP-2	104-P02	Rabbit	E, WB, N	100µg
Anti-human GRO-gamma	102-P22	Rabbit	E, WB, N	100µg

**Human Growth Hormone**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Growth Hormone	PNb-019S	Nicotiana benth.	22.9 kDa	10µg
Human Growth Hormone	PNb-019	Nicotiana benth.	22.9 kDa	50µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-hu Growth Hormone	101-M443	Mouse	WB, N	100µg

**Anti-human Growth Hormone Receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-hu Growth Hormone R	101-M444	Mouse	WB, N	100µg

**Anti-GST****Polyclonal Antibodies – Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-GST	102-PA83	Rabbit	WB	50µg

**Anti-mouse H60****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse H60	103-M398	Rat	WB	100µg

**Anti-HAI-1 (HGF Activator Inhibitor Type 1)****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human HAI-1	101-M445	Mouse	WB, N	100µg
Anti-mouse HAI-1	103-M229	Rat	WB	100µg

**Anti-HAI-2 (HGF Activator Inhibitory Type 2)****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human HAI-2	101-M446	Mouse	WB, N	100µg
Anti-mouse HAI-2	103-M230	Rat	WB	100µg

**HB-EGF Heparin-binding EGF-like growth factor**

Product	Catalog#	Source	MW	Size
Human HB-EGF	100-185S	E. coli	9.8 kDa	10µg
Human HB-EGF	100-185	E. coli	9.8 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> was determined by a cell proliferation assay using Balb/c 3T3 cells is < 1.0 ng/ml [ $> 1 \times 10^5$  units/mg].

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human HB-EGF	101-M447	Mouse	WB, N	100µg

**HB-VEGF-E Heparin-binding VEGF-E**

See VEGF-E!

**HCC-1/CCL14 Hemofiltrate CC chemokine-1**

Product	Catalog#	Source	MW	Size
Human HCC-1	100-034S	E. coli	8.4 kDa	2µg
Human HCC-1	100-034	E. coli	8.4 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 5-20 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human HCC-1	102-P230	Rabbit	E, WB	100µg

**Anti-mouse HIP (Hedgehog interacting protein)****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse HIP	103-M231	Rat	WB	100µg

**Anti-human Hepassocin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Hepassocin	101-M448	Mouse	WB	100µg

**Anti-mouse HRP-1 Hepatoma-derived growth factor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse HRP-1	103-M233	Rat	WB	100µg

**Heregulin-beta1**

Product	Catalog#	Source	MW	Size
Human Heregulin-beta-1	100-187S	E. coli	7.5 kDa	10µg
Human Heregulin-beta-1	100-187	E. coli	7.5 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of human MCF-7 cells is < 0.5 ng/ml [ $> 2 \times 10^6$  units/mg].

## HGF PP

### Hepatocyte growth factor

Synonyms: Scatter factor, SF, Hepatopoietin A

Product	Catalog#	Source	MW	Size
Human HGF	300-010	Insect cells	78.0 kDa	5µg
Human HGF	300-011	Insect cells	78.0 kDa	25µg
Mouse HGF	M10-093S	Insect cells	78.0 kDa	5µg
Mouse HGF	M10-093	Insect cells	78.0 kDa	20µg

**Biological Activity:** Human: The activity was assayed for scattering activity in the MDCK cell assay. The ED<sub>50</sub> was for this effect is typically at 0.5-1.0 ng/ml. Mouse: Determined by the dose-dependent stimulation of the proliferation of mouse IMCD3 cells using a concentration range of 10-20 ng/ml.

#### Polyclonal Antibodies – Protein-A Purified

Product	Catalog#	Source	Application	Size
Anti-human HGF	102-PA62S	Rabbit	E, WB	100µg
Anti-human HGF	102-PA62	Rabbit	E, WB	200µg

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human HGF	102-PA62AG	Rabbit	E, WB	50µg

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human HGF	101-M449	Mouse	WB, N	100µg

## Anti-HGF-R

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human HGF-R	101-M450	Mouse	WB	100µg
Anti-mouse HGF-R	103-M184	Rat	WB, IHC	100µg

## Anti-His tag

#### Polyclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-His tag (C-terminal)	102-PA80	Rabbit	WB	50µg
Anti-His tag (C/N-terminal)	102-PA82	Rabbit	WB	50µg

## Anti-human HM74A

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human HM74A	101-M451	Mouse	FC	100µg

## Anti-human HMGB1

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human HMGB1	101-M452	Mouse	WB	100µg

## Anti-HPRG

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human HPRG	101-M453	Mouse	WB	100µg
Anti-mouse HPRG	103-M232	Rat	WB	100µg

## HVEM-Fc

Product	Catalog#	Source	MW	Size
Human HVEM-Fc	SFC-040S	Insect cells		20µg
Human HVEM-Fc	SFC-040	Insect cells		100µg

**Biological Activity:** Determined by its ability to neutralize 0.25 ng/ml of hTNFβ induced cytotoxicity on mouse L929 cells. The expected ED<sub>50</sub> for this effect is 1.3-1.9 µg/ml of HVEM-Fc.

## I-309/CCL1

Product	Catalog#	Source	MW	Size
Human I-309/CCL1	100-035S	E. coli	8.5 kDa	2µg
Human I-309/CCL1	100-035	E. coli	8.5 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract total human T cell population using a concentration range of 10-100 ng/ml.

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human I-309	102-P24	Rabbit	E, WB	100µg

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<b>ICAM-1</b>		<b>Intercellular adhesion molecule-1</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human ICAM-1	100-341S	CHO cells	72-80 kDa	10µg
Human ICAM-1	100-341	CHO cells	72-80 kDa	50µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ICAM-1	101-M97	Mouse	WB	100µg
Anti-mouse ICAM-1	103-M97	Rat	E, WB	200µg
<b>Anti-mouse ICAM-5</b>		<b>Intercellular adhesion molecule 5</b>		
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse ICAM-5	103-M399	Rat	WB	100µg
<b>IFN-alpha</b>		<b>Interferon-alpha</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IFN-alpha*	100-036S	E. coli	19.2 kDa	20µg
Human IFN-alpha*	100-036	E. coli	19.2 kDa	100µg
Human IFN-alpha	PNb-041	Nicotiana benth.	19.2 kDa	10µg
Human IFN-alpha	PNb-042	Nicotiana benth.	19.2 kDa	50µg
<b>Biological Activity:</b> *The specific activity as determined in a viral resistance assay was found to be $> 1.8 \times 10^8$ units/mg.				
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IFN-alpha	102-P25G	Goat	E, WB	100µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IFN-alpha	101-M02	Mouse	E	500µg
<b>IFN-beta</b>		<b>Interferon-beta</b>		
<b>Synonyms:</b> Fibroblast interferon, interferon-beta1				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IFN-beta	100-037	E. coli	18.0 kDa	10µg
Human IFN-beta	100-191S	CHO cells	22.3 kDa	5µg
Human IFN-beta	100-191	CHO cells	22.3 kDa	20µg
<b>Biological Activity:</b> The anti-viral activity was determined using human fibroblasts and was found to be $2 \times 10^7$ units/mg (E. coli). The biological activity of human IFN-beta was on analysis using the WISH cell line with VSV challenge virus. The specific activity was determined to be $> 2 \times 10^6$ units/mg (CHO).				
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IFN-beta	102-P26	Rabbit	E, WB	100µg
<b>Anti-IFN alpha/beta Receptor</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-hu IFN alpha/beta R1	101-M512	Mouse	WB, FC	100µg
Anti-mo IFN alpha/beta R2	103-M400	Rat	WB	100µg
<b>IFN-gamma</b>		<b>Interferon-gamma</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IFN-gamma	100-039S	E. coli	16.7 kDa	20µg
Human IFN-gamma	100-039	E. coli	16.7 kDa	100µg
Mouse IFN-gamma	M10-010S	E. coli	15.6 kDa	20µg
Mouse IFN-gamma	M10-010	E. coli	15.6 kDa	100µg
Rat IFN-gamma	R20-004S	E. coli	15.6 kDa	20µg
Rat IFN-gamma	R20-004	E. coli	15.6 kDa	100µg
<b>Biological Activity:</b> The ED <sub>50</sub> as determined in a viral resistance assay is $< 0.05$ ng/ml [ $> 2 \times 10^7$ units/mg] (human). The ED <sub>50</sub> as determined by a cytopathic affect inhibition assay with mouse NIH 3T3 cells challenged with VSV virus was 0.1 ng/ml [ $1 \times 10^7$ units/mg] (mouse) and with mouse L929 cells challenged with EMC virus was $< 0.1$ ng/ml [ $> 1 \times 10^7$ units/mg] (rat).				
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IFN-gamma	102-P27	Rabbit	E, WB, N	100µg
Anti-mouse IFN-gamma	103-P07	Rabbit	E, WB, N	100µg
Anti-rat IFN-gamma	104-P03G	Goat	E, WB	100µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IFN-gamma	101-M169	Mouse	E, WB	500µg

## Anti-mouse IFN-gamma Receptor

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-hu IFN-gamma R1	101-M513	Mouse	WB, FC, N	100µg
Anti-mo IFN-gamma R1	103-M234	Rat	WB	100µg
Anti-mo IFN-gamma R2	103-M401	Rat	WB, N	100µg

## IFN-lambda-1 / -2

Synonyms: INF-lambda-1: IL-29; INF-lambda-2: IL-28A

Product	Catalog#	Source	MW	Size
Human IFN-lambda-1	100-193S	E. coli	19.8 kDa	5µg
Human IFN-lambda-1	100-193	E. coli	19.8 kDa	20µg
Human IFN-lambda-2 (IL-28A)	100-194S	E. coli	19.6 kDa	5µg
Human IFN-lambda-2 (IL-28A)	100-194	E. coli	19.6 kDa	20µg
Mouse IFN-lambda-2	M10-068S	E. coli	19.8 kDa	5µg
Mouse IFN-lambda-2	M10-068	E. coli	19.8 kDa	20µg

**Biological Activity:** Recombinant human IFN-lambda-1 induces phosphorylation of STAT2. Determined by its ability to activate STAT following receptor-ligand interaction.

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IFN-lambda2	102-P231	Rabbit	E, WB	100µg

## IFN-omega

Synonyms: INF-lambda-1: IL-29; INF-lambda-2: IL-28A

Product	Catalog#	Source	MW	Size
Human IFN-omega	100-384S	E. coli	19.9 kDa	20µg
Human IFN-omega	100-384	E. coli	19.9 kDa	100µg

**Biological Activity:** The ED<sub>50</sub> was determined by a cytotoxicity assay using Human TF-1 cells is ≤ 0.01 ng/ml, corresponding to a specific activity of ≥ 1 x 10<sup>8</sup> units/mg.

## IGF-1 Insulin-like growth factor 1

Product	Catalog#	Source	MW	Size
Human IGF-1	100-040S	E. coli	7.6 kDa	20µg
Human IGF-1	100-040	E. coli	7.6 kDa	100µg
Mouse IGF-1	M10-011S	E. coli	7.6 kDa	10µg
Mouse IGF-1	M10-011	E. coli	7.6 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> was determined by a cell proliferation assay using FDC-P1 cells is < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg].

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IGF-1	102-P28	Rabbit	E, WB, N	100µg
Anti-mouse IGF-1	103-P08G	Goat	E, WB	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IGF-1	101-M454	Mouse	WB	100µg
Anti-mouse IGF-1	103-M240	Hamster	WB	100µg

## Anti-human IGF-1 Receptor

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IGF-1 R	101-M455	Mouse	WB, N	100µg

## IGF-2 Insulin-like growth factor 2

Product	Catalog#	Source	MW	Size
Human IGF-2	100-041S	E. coli	7.6 kDa	10µg
Human IGF-2	100-041	E. coli	7.6 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> was determined by a cell proliferation assay using FDC-P1 cells is < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg].

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IGF-2	102-P29	Rabbit	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IGF-2	101-M456	Mouse	WB	100µg
Anti-mouse IGF-2	103-M241	Rat	WB	100µg

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**IGF-BP**      **Insulin-like growth factor binding proteins**

**Synonyms:** IGF-BP1: IBP-1, Placenta Protein 12; IGF-BP3: Growth Hormone-dependent binding protein; IGF-BP4: IBP-1, Placenta Protein 12; IGF-BP7: Mac25, IGFBPrP1

Product	Catalog#	Source	MW	Size
Human IGF-BP1	100-197S	E. coli	25.4 kDa	5µg
Human IGF-BP1	100-197	E. coli	25.4 kDa	25µg
Human IGF-BP2	100-198S	Insect cells	31.5 kDa	5µg
Human IGF-BP2	100-198	Insect cells	31.5 kDa	20µg
Human IGF-BP3	100-199S	E. coli	28.8 kDa	5µg
Human IGF-BP3	100-199	E. coli	28.8 kDa	25µg
Human IGF-BP4	100-200S	Insect cells	26.1 kDa	5µg
Human IGF-BP4	100-200	Insect cells	26.1 kDa	20µg
Human IGF-BP5	100-201S	E. coli	28.6 kDa	5µg
Human IGF-BP5	100-201	E. coli	28.6 kDa	25µg
Human IGF-BP6	100-377S	Insect cells	23-30 kDa	5µg
Human IGF-BP6	100-377	Insect cells	23-30 kDa	20µg
Human IGF-BP7	100-203S	E. coli	26.4 kDa	5µg
Human IGF-BP7	100-203	E. coli	26.4 kDa	25µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IGF-BP3	102-P144	Rabbit	E, WB	100µg
Anti-human IGF-BP5	102-P232	Rabbit	E, WB	100µg
Anti-human IGF-BP7	102-P233	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IGF-BP-1	101-M457	Mouse	WB, N	100µg
Anti-mouse IGF-BP-1	103-M235	Rat	WB	100µg
Anti-human IGF-BP-2	101-M458	Mouse	WB	100µg
Anti-mouse IGF-BP-2	103-M236	Rat	WB	100µg
Anti-human IGF-BP-3	101-M459	Mouse	WB, IHC(P)	100µg
Anti-mouse IGF-BP-3	103-M237	Rat	WB	100µg
Anti-human IGF-BP-4	101-M460	Mouse	WB, N	100µg
Anti-human IGF-BP-5	101-M461	Mouse	WB, IHC(P)	100µg
Anti-mouse IGF-BP-5	103-M238	Rat	WB	100µg
Anti-human IGF-BP-6	101-M462	Mouse	WB	100µg
Anti-mouse IGF-BP-6	103-M239	Rat	WB	100µg
Anti-human IGF-BP-7	101-M463	Mouse	WB	100µg

**Isotype Control IgGs****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Mouse IgG1	IgG-001	Mouse		1mg
Mouse IgG2a	IgG-002	Mouse		1mg
Mouse IgG2b	IgG-003	Mouse		1mg
Mouse IgM	IgG-004	Mouse		1mg
Rat IgG1	IgG-005	Rat		1mg
Rat IgG2a	IgG-006	Rat		1mg
Rat IgG2b	IgG-007	Rat		1mg
Goat IgG	IgG-008	Goat		1mg
Mouse IgG	IgG-009	Mouse		250µg
Rabbit IgG	IgG-010	Rabbit		500µg

**IL-1 alpha**      **Interleukin-1 alpha**

Product	Catalog#	Source	MW	Size
Human IL-1 alpha	100-042S	E. coli	18.0 kDa	2µg
Human IL-1 alpha	100-042	E. coli	18.0 kDa	10µg
Mouse IL-1 alpha	M10-012S	E. coli	17.9 kDa	2µg
Mouse IL-1 alpha	M10-012	E. coli	17.9 kDa	10µg
Rat IL-1 alpha	R20-024S	E. coli	17.7 kDa	2µg
Rat IL-1 alpha	R20-024	E. coli	17.7 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of mouse D10S cells is < 0.001 ng/ml [> 1 x 10<sup>9</sup> units/mg (human)], < 0.002 ng/ml [> 5 x 10<sup>8</sup> units/mg (mouse)], and < 0.005 ng/ml [> 2 x 10<sup>6</sup> units/mg (rat)].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-1 alpha	102-P30	Rabbit	E, WB, N	100µg
Anti-mouse IL-1 alpha	103-P10	Rabbit	E, WB, N	100µg
Anti-rat IL-1 alpha	104-P22	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-1 alpha	101-M464	Mouse	WB, IHC(F), N	100µg
Anti-mouse IL-1 alpha	103-M402	Rat	WB, IHC(F), N	100µg



**IL-1RA Interleukin-1 Receptor Antagonist**

Product	Catalog#	Source	MW	Size
Human IL-1RA	S01-061	E. coli	17.2 kDa	100µg

**IL-1 beta Interleukin-1 beta** 

**Synonyms:** Lymphocyte-activating factor (LAF), Leukocyte endogenous mediator (LEM)

Product	Catalog#	Source	MW	Size
Human IL-1 beta	400-001	E. coli	17.3 kDa	2µg
Human IL-1 beta	400-002	E. coli	17.3 kDa	10µg
Human IL-1 beta	400-002-DC	E. coli	17.3 kDa	50µg
Mouse IL-1 beta	M10-013S	E. coli	17.5 kDa	2µg
Mouse IL-1 beta	M10-013	E. coli	17.5 kDa	10µg
Rat IL-1 beta	R20-005S	E. coli	17.3 kDa	2µg
Rat IL-1 beta	R20-005	E. coli	17.3 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of mouse D10S cells is < 0.001 ng/ml [ $> 1 \times 10^9$  units/mg (human)], < 0.002 ng/ml [ $> 5 \times 10^8$  units/mg (mouse)], and < 0.005 ng/ml [ $> 2 \times 10^8$  units/mg (rat)].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-1 beta	103-P11	Rabbit	E, WB, N	100µg
Anti-rat IL-1 beta	104-P04	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-1 beta	101-M465	Mouse	WB, IHC(F), N	100µg
Anti-mouse IL-1 beta	103-M403	Rat	WB	100µg

**Anti-human IL-1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-1F5	101-M496	Mouse	WB	100µg
Anti-human IL-1F6	101-M497	Mouse	WB	100µg
Anti-human IL-1F7	101-M498	Mouse	WB, N	100µg
Anti-human IL-1F8	101-M499	Mouse	WB	100µg
Anti-human IL-1F9	101-M500	Mouse	WB, N	100µg

**sIL-1 receptor alpha soluble Interleukin-1 receptor antagonist**

Product	Catalog#	Source	MW	Size
Human IL-1 alpha antagonist	S01-061S	HEK293	37.6 kDa	5µg
Human IL-1 alpha antagonist	S01-061	HEK293	37.6 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to intensify the IL-6 induced growth inhibition of murine M1 cells is  $\leq 5.0$  ng/ml, in the presence of 20 ng/ml of rhIL-6.

**IL-1RA Interleukin-1 receptor antagonist (IRAP)**

Product	Catalog#	Source	MW	Size
Human IL-1RA	100-043S	E. coli	17.0 kDa	5µg
Human IL-1RA	100-043	E. coli	17.0 kDa	20µg


**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent inhibition of IL-1 stimulation of D10S cells was found to be 0.5 ng/ml.

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-1 R antagonist	101-M501	Mouse	WB	100µg
Anti-mouse IL-1 R antagonist	103-M413	Rat	WB	100µg

**Anti-IL-1 Receptor Interleukin-1 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-1 R1	101-M466	Mouse	WB	100µg
Anti-mouse IL-1 R1	103-M136	Rat	WB	100µg
Anti-human IL-1 R2	101-M467	Mouse	WB, IHC(F), N	100µg
Anti-mouse IL-1 R2	103-M138	Rat	WB	100µg
Anti-mouse IL-1 R4	103-M272	Rat	WB	100µg
Anti-human IL-1 R6	101-M468	Mouse	WB	100µg
Anti-human IL-1 R8	101-M469	Mouse	WB	100µg
Anti-human IL-1 R9	101-M470	Mouse	WB	100µg

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<b>IL-2</b>		<b>Interleukin-2</b>		<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-2	200-009	E. coli	15.4 kDa	10µg
Human IL-2	200-010	E. coli	15.4 kDa	50µg
Mouse IL-2	M10-014S	E. coli	17.2 kDa	5µg
Mouse IL-2	M10-014	E. coli	17.2 kDa	20µg
Rat IL-2	R20-026S	E. coli	15.3 kDa	5µg
Rat IL-2	R20-026	E. coli	15.3 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of mouse CTLL-2 cells is < 0.1 ng/ml [ $> 1 \times 10^7$  units/mg (human)], < 0.2 ng/ml [ $> 5 \times 10^6$  units/mg (mouse)], and < 0.4 ng/ml [ $> 2.5 \times 10^6$  units/mg (rat)].

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-2	102-P32	Rabbit	E, WB, N	100µg
Anti-human IL-2	102-P148G	Goat	E, WB, N	100µg
Anti-mouse IL-2	103-P12	Rabbit	E, WB, N	100µg
Anti-rat IL-2	104-P14	Rabbit	E, WB, N	100µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-2	101-M502	Mouse	WB, IHC(F), N	100µg
Anti-human IL-2	101-M04	Mouse	E	500µg
Anti-mouse IL-2	103-M414	Rat	FC, IP, IHC(F), N	100µg

### **Anti-IL-2 Receptor**

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-2 R alpha	101-M710	Mouse	WB, IHC(P), N	100µg
Anti-human IL-2 R beta	101-M711	Mouse	IHC(P), N	100µg
Anti-mouse IL-2 R beta	103-M248	Rat	WB	100µg
Anti-mouse IL-2 R gamma	103-M347	Rat	WB, FC	100µg

### **sIL-2R soluble Interleukin-2 receptor**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sIL-2R	S01-032S	Insect cells	31.1 kDa	5µg
Human sIL-2R	S01-032	Insect cells	31.1 kDa	25µg

**Biological Activity:** Determined by its ability to increase the proliferation effect of IL-2 in mouse CTLL-2 cells. In the presence of 1 ng/ml of recombinant IL-2, the expected ED<sub>50</sub> is between 0.5 - 1.5 µg/ml.

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human sIL-2R	101-M165	Mouse	E, WB, N	500µg

### **IL-3 Interleukin-3**

**PP**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-3*	200-015	E. coli	15.0 kDa	2µg
Human IL-3*	200-016	E. coli	15.0 kDa	10µg
Human IL-3*	200-015-SC	E. coli	15.0 kDa	50µg
Human IL-3	PNb-035	Nicotiana benth.	15.0 kDa	10µg
Human IL-3	PNb-036	Nicotiana benth.	15.0 kDa	20µg
Mouse IL-3*	M10-015S	E. coli	15.1 kDa	2µg
Mouse IL-3*	M10-015	E. coli	15.1 kDa	10µg
Rat IL-3 beta*	R20-006S	E. coli	16.3 kDa	5µg
Rat IL-3 beta*	R20-006	E. coli	16.3 kDa	20µg

**Biological Activity:** \*The ED<sub>50</sub> as determined by the dose-dependent stimulation of proliferation of human TF-1 cells is < 0.1 ng/ml [ $> 1 \times 10^7$  units/mg (human)], of mouse M-NFS-60 cells is < 0.05 ng/ml [ $> 2 \times 10^7$  units/mg (mouse)] and by the dose-dependent stimulation of proliferation of thymidine uptake by mouse MC-9 cells is < 10 ng/ml [ $> 1.0 \times 10^5$  units/mg (rat)].

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-3	102-P33	Rabbit	E, WB, N	100µg
Anti-mouse IL-3	103-P13	Rabbit	E, WB, N	100µg
Anti-rat IL-3 beta	104-P24G	Goat	E, WB, N	100µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-3	101-M712	Mouse	WB, IHC(F), N	100µg
Anti-mouse IL-3	103-M420	Rat	WB, N	100µg

**Anti-mouse IL-3 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-3 R alpha	103-M252	Rat	WB	100µg
Anti-mouse IL-3 R beta	103-M253	Rat	WB	100µg

**IL-4 Interleukin-4** 

Product	Catalog#	Source	MW	Size
Human IL-4	200-021	E. coli	14.9 kDa	2µg
Human IL-4	200-022	E. coli	14.9 kDa	10µg
Human IL-4	200-023-DC	E. coli	14.9 kDa	50µg
Human IL-4	PNb-054	Nicotiana benth.	16-18 kDa	10µg
Human IL-4	PNb-055	Nicotiana benth.	16-18 kDa	50µg
Mouse IL-4	M10-016S	E. coli	13.5 kDa	5µg
Mouse IL-4	M10-016	E. coli	13.5 kDa	20µg
Rat IL-4	R20-007S	E. coli	14.0 kDa	5µg
Rat IL-4	R20-007	E. coli	14.0 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of human TF-1 cells is < 0.2 ng/ml [ $> 5 \times 10^6$  units/mg (human)], of mouse HT-2 cells is < 2.0 ng/ml [ $> 5 \times 10^7$  units/mg (mouse)], and of the proliferation of con A-activated rat spleen cells was found to be < 1.5 ng/ml [ $> 6.6 \times 10^5$  units/mg (rat)].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-4	102-P34	Rabbit	E, WB, N	100µg
Anti-mouse IL-4	103-P14	Rabbit	E, WB, N	100µg
Anti-rat IL-4	104-P05	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-4	101-M508	Mouse	WB, IHC(F), N	100µg
Anti-human IL-4	101-M05	Mouse	E	500µg
Anti-mouse IL-4	103-M422	Rat	WB, N	100µg

**Anti-mouse IL-4 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-4 R	103-M254	Rat	WB	100µg

**sIL-4R alpha soluble Interleukin-4 receptor alpha**

Product	Catalog#	Source	MW	Size
Human sIL-4R alpha	S01-033S	HEK293 cells	23.7 kDa	3µg
Human sIL-4R alpha	S01-033	HEK293 cells	23.7 kDa	15µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to inhibit the IL-4 dependent proliferation of human TF-1 cells is < 5.0 ng/ml (in the presence of 0.5 ng/ml of IL-4) [ $> 2 \times 10^5$  units/mg].

**IL-5 Interleukin-5**

Product	Catalog#	Source	MW	Size
Human IL-5	100-044S	E. coli	26.0 kDa	2µg
Human IL-5	100-044	E. coli	26.0 kDa	10µg
Mouse IL-5	M10-046S	E. coli	26,2 kDa	5µg
Mouse IL-5	M10-046	E. coli	26,2 kDa	25µg
Rat IL-5	R20-048S	E. coli	26.0 kDa	2µg
Rat IL-5	R20-048	E. coli	26.0 kDa	10µg


**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells is < 0.15 ng/ml [ $> 6.6 \times 10^6$  units/mg] (human), < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg] (mouse), < 0.5 ng/ml [ $> 2 \times 10^6$  units/mg] (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**


Product	Catalog#	Source	Application	Size
Anti-human IL-5	102-P35	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-5	103-M423	Rat	FC, N	100µg

**IL-6 Interleukin-6** 

Product	Catalog#	Source	MW	Size
Human IL-6*	200-030	E. coli	20.9 kDa	5µg
Human IL-6*	200-031	E. coli	20.9 kDa	20µg
Human IL-6*	200-030-DC	E. coli	20.9 kDa	50µg
Human IL-6	PNb-029	Nicotiana benth.	20.9 kDa	5µg
Human IL-6	PNb-030	Nicotiana benth.	20.9 kDa	10µg
Human IL-6	PNb-031	Nicotiana benth.	20.9 kDa	50µg

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Mouse IL-6*	M10-017S	E. coli	21.7 kDa	2µg
Mouse IL-6*	M10-017	E. coli	21.7 kDa	10µg
Rat IL-6 *	R20-008S	E. coli	21.7 kDa	2µg
Rat IL-6 *	R20-008	E. coli	21.7 kDa	10µg

**Biological Activity:** \*The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of IL-6 dependent mouse 7TD1 cells is < 0.1 ng/ml [ $> 1 \times 10^7$  units/mg (human)], < 0.02 ng/ml [ $> 5 \times 10^7$  units/mg (mouse)], < 0.01 ng/ml [ $> 1 \times 10^8$  units/mg (rat)].

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IL-6	102-P36	Rabbit	E, WB, N	100µg
Anti-human IL-6	102-P153G	Goat	E, WB, N	100µg
Anti-mouse IL-6	103-P15	Rabbit	E, WB, N	100µg
Anti-rat IL-6	104-P06	Rabbit	E, WB, N	100µg
Anti-rat IL-6	104-P27G	Goat	E, WB, N	100µg

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IL-6	101-M06	Mouse	E	500µg
Anti-mouse IL-6	103-M424	Rat	WB, N	100µg

### Anti-mouse IL-6 Receptor

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse IL-6 R	103-M255	Rat	WB, IHC	100µg

### sIL-6R alpha

#### soluble Interleukin-6 receptor alpha

Product	Catalog#	Source	MW	Size
Human sIL-6R alpha	S01-034S	HEK293	37.6 kDa	5µg
Human sIL-6R alpha	S01-034	HEK293	37.6 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to intensify the IL-6 induced growth inhibition of mouse M1 cells is < 5 ng/ml, in the presence of 20 ng/ml of rIL-6.

### IL-7

#### Interleukin-7

**Synonyms:** Lymphopoietin 1 (LP-1), pre B cell factor

Product	Catalog#	Source	MW	Size
Human IL-7	100-045S	E. coli	17.4 kDa	2µg
Human IL-7	100-045	E. coli	17.4 kDa	10µg
Human IL-7	PNb-056	Nicotiana benth.	18-25 kDa	10µg
Human IL-7	PNb-057	Nicotiana benth.	18-25 kDa	50µg
Mouse IL-7	M10-018S	E. coli	15.0 kDa	2µg
Mouse IL-7	M10-018	E. coli	15.0 kDa	10µg
Rat IL-7	R20-029S	E. coli	15.0 kDa	2µg
Rat IL-7	R20-029	E. coli	15.0 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse 2E8 cells is < 0.5 ng/ml (human), and < 0.2 ng/ml (mouse).

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IL-7	102-P37	Rabbit	E, WB, N	100µg
Anti-mouse IL-7	103-P16	Rabbit	E, WB, N	100µg

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IL-7	101-M07	Mouse	E, N	500µg
Anti-human IL-7	101-M713	Mouse	WB, IHC(P), N	100µg
Anti-mouse IL-7	103-M425	Rat	WB	100µg

### Anti-mouse IL-7 Receptor

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human IL-7 R alpha	101-M509	Mouse	WB	100µg
Anti-mouse IL-7 R alpha	103-M426	Rat	WB	100µg

### IL-8/CXCL8

#### Interleukin-8

Product	Catalog#	Source	MW	Size
Human IL-8 (72 a.a.)	100-046S	E. coli	8.4 kDa	5µg
Human IL-8 (72 a.a.)	100-046	E. coli	8.4 kDa	25µg
Human IL-8 (77 a.a.)	100-047S	E. coli	8.9 kDa	5µg
Human IL-8 (77 a.a.)	100-047	E. coli	8.9 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10-100 ng/ml (72 a.a.), 25-150 ng/ml (77 a.a.).

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human IL-8	102-P38	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-8	101-M08	Mouse	E, N	500µg

**IL-9 Interleukin-9**

Synonyms: p40 cytokine, T-cell growth factor p40

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-9	100-217S	E. coli	14.0 kDa	2µg
Human IL-9	100-217	E. coli	14.0 kDa	10µg
Mouse IL-9	M10-069S	E. coli	14.3 kDa	2µg
Mouse IL-9	M10-069	E. coli	14.3 kDa	10µg
Rat IL-9	R20-055S	E. coli	14.3 kDa	2µg
Rat IL-9	R20-055	E. coli	14.3 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent proliferation of human M07e cells is < 0.2 ng/ml [ $> 5 \times 10^5$  units/mg (human)], and < 0.5 ng/ml [ $> 2 \times 10^6$  units/mg (mouse)].

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-9	102-P155	Rabbit	E, WB, N	100µg
Anti-mouse IL-9	103-P57	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse IL-9	103-M427	Rat	WB	100µg

**Anti-mouse IL-9 Receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-9 R	101-M510	Mouse	WB	100µg
Anti-mouse IL-9 R	103-M256	Rat	WB	100µg

**IL-10 Interleukin-10**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-10	100-049S	E. coli	18.6 kDa	2µg
Human IL-10	100-049	E. coli	18.6 kDa	10µg
Human IL-10	PNb-058	Nicotiana benth.	17.0 kDa	10µg
Human IL-10	PNb-059	Nicotiana benth.	17.0 kDa	100µg
Mouse IL-10	M10-020S	E. coli	18.7 kDa	2µg
Mouse IL-10	M10-020	E. coli	18.7 kDa	10µg
Rat IL-10	R20-009S	E. coli	18.7 kDa	2µg
Rat IL-10	R20-009	E. coli	18.7 kDa	10µg

**Biological Activity:** Determined by the dose-dependent co-stimulation (with mouse IL-4) of MC/9 cells. The ED<sub>50</sub> was found to be < 2 ng/ml [ $> 5 \times 10^5$  units/mg, (human)], by the dose-dependent co-stimulation (with IL-4) of the proliferation of mouse MC/9 cells. The ED<sub>50</sub> was found to be < 2 ng/ml [ $> 5 \times 10^5$  units/mg (mouse)], and by the dose-dependent inhibition of antigen-specific T cell proliferation is less than 10ng/ml (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-10	102-P40	Rabbit	E, WB, N	100µg
Anti-mouse IL-10	103-P18	Rabbit	E, WB, N	100µg
Anti-rat IL-10	104-P07	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-10	101-M471	Mouse	WB, N	100µg
Anti-mouse IL-10	103-M404	Rat	WB, N	100µg
Anti-mouse IL-10	103-M202	Rat	E	500µg

**Anti-mouse IL-10 Receptor alpha****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-10 R alpha	101-M472	Mouse	WB	100µg
Anti-mouse IL-10 R alpha	103-M242	Rat	WB	100µg
Anti-human IL-10 R beta	101-M473	Mouse	WB, N	100µg

**IL-11 Interleukin-11**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-11	100-050S	E. coli	19.1 kDa	2µg
Human IL-11	100-050	E. coli	19.1 kDa	10µg
Mouse IL-11	M10-118S	E. coli	19.1 kDa	2µg
Mouse IL-11	M10-118	E. coli	19.1 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of mouse T11 cells is < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg], is  $\leq 2.0$  ng/ml [ $\geq 5 \times 10^5$  units/mg] (mouse).

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**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-11	102-P41	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-11	101-M474	Mouse	WB, N	100µg
Anti-human IL-11	101-M87	Mouse	E	500µg
Anti-mouse IL-11	103-M405	Rat	WB, N	100µg

**IL-12 Interleukin-12**

Product	Catalog#	Source	MW	Size
Human IL-12	100-051S	CHO cells	75.0 kDa	2µg
Human IL-12	100-051	CHO cells	75.0 kDa	10µg
Mouse IL-12	M10-021S	CHO cells	75.0 kDa	2µg
Mouse IL-12	M10-021	CHO cells	75.0 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> was determined by the induction of IFN-gamma from NK cells co-stimulated with IL-18 is < 1.0 ng/ml [ $> 1 \times 10^6$  units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-12	102-P42G	Goat	E, WB, N	100µg
Anti-mouse IL-12	103-P19G	Goat	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-12	101-M475	Mouse	WB, IHC(F), N	100µg
Anti-human IL-12	101-M72	Mouse	E	500µg
Anti-mouse IL-12	103-M406	Rat	E	100µg
Anti-mouse IL-12	103-M23	Rat	E	500µg

**IL-12p40 Interleukin-12p40 (monomer)**

Product	Catalog#	Source	MW	Size
Human IL-12p40	100-311S	CHO cells	40.0 kDa	2µg
Human IL-12p40	100-311	CHO cells	40.0 kDa	10µg
Human IL-12p40 (inactive)	PNb-021-I	Nicotiana benth.	40.0 kDa	10µg

**IL-12p80 Interleukin-12p80 (dimer)**

Product	Catalog#	Source	MW	Size
Human IL-12p80	100-381S	Insect cells	80.0 kDa	2µg
Human IL-12p80	100-381	Insect cells	80.0 kDa	10µg

**Anti-human IL-12 Receptor beta1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-12 R beta1	101-M476	Mouse	FC	100µg

**IL-13 Interleukin-13**

Product	Catalog#	Source	MW	Size
Human IL-13	100-052S	E. coli	12.5 kDa	2µg
Human IL-13	100-052	E. coli	12.5 kDa	10µg
Human IL-13 Variant	100-343S	E. coli	12.5 kDa	2µg
Human IL-13 Variant	100-343	E. coli	12.5 kDa	10µg
Mouse IL-13	M10-071S	E. coli	12.3 kDa	2µg
Mouse IL-13	M10-071	E. coli	12.3 kDa	10µg
Rat IL-13 (109 aa)	R20-031S	E. coli	11.9 kDa	2µg
Rat IL-13 (109 aa)	R20-031	E. coli	11.9 kDa	10µg
Rat IL-13 (113 aa)	R20-049S	E. coli	12.3 kDa	2µg
Rat IL-13 (113 aa)	R20-049	E. coli	12.3 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells is <1.0 ng/ml (human), <4.0 ng/ml (mouse), <40 ng/ml (rat), <5 ng/ml (rat 113aa).

**Biological Activity (Variant):** This IL-13 analog shows a two fold increase, relative to wild type IL-13, in bioactivity as measured by the in-vitro dose dependent activation of STAT6 and IL-13 dependent gene induction in transfected A201.1 cells. This analog has also been shown to exhibit increased in vivo activity compared to wild type IL-13, as measured by the induction of airway hyper-responsiveness.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-13	102-P43	Rabbit	E, WB, N	100µg
Anti-mouse IL-13	103-P60	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-13	101-M477	Mouse	WB, N	100µg
Anti-mouse IL-13	103-M408	Rat	WB, N	100µg

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**Anti-mouse IL-13 Receptor alpha****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-13 R alpha	101-M478	Mouse	WB	100µg
Anti-human IL-13 R alpha2	101-M479	Mouse	WB	100µg
Anti-mouse IL-13 R alpha2	103-M243	Rat	WB	100µg

**IL-15 Interleukin-15**

Product	Catalog#	Source	MW	Size
Human IL-15	100-053S	E. coli	12.9 kDa	2µg
Human IL-15	100-053	E. coli	12.9 kDa	10µg
Mouse IL-15	M10-022S	E. coli	13.3 kDa	2µg
Mouse IL-15	M10-022	E. coli	13.3 kDa	10µg
Rat IL-15	R20-032S	E. coli	13.5 kDa	2µg
Rat IL-15	R20-032	E. coli	13.5 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of CTLL-2 cells was found to be < 0.5 ng/ml [ $> 2 \times 10^6$  units/mg (human)], < 5.0 ng/ml [ $> 2 \times 10^5$  units/mg (mouse)], < 10 ng/ml [ $> 1 \times 10^7$  units/mg (rat)].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-15	102-P44	Rabbit	E, WB, N	100µg
Anti-mouse IL-15	103-P75	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-15	101-M480	Mouse	WB, N	100µg
Anti-human IL-15	101-M10	Mouse	E	500µg
Anti-mouse IL-15	103-M409	Rat	WB	100µg

**Anti-mouse IL-15 Receptor alpha****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-15 R alpha	101-M481	Mouse	WB	100µg
Anti-mouse IL-15 R alpha	103-M244	Rat	WB	100µg

**IL-16 Interleukin-16**

**Synonyms:** LCF (Lymphocyte Chemoattractant Factor)

Product	Catalog#	Source	MW	Size
Human IL-16 (121 aa)	100-054S	E. coli	12.4 kDa	2µg
Human IL-16 (121 aa)	100-054	E. coli	12.4 kDa	10µg
Human IL-16 (130 aa)	100-344S	E. coli	13.5 kDa	2µg
Human IL-16 (130 aa)	100-344	E. coli	13.5 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human CD4+ T-Lymphocytes using a concentration range of 50-100 ng/ml (121 aa), and of 1 -100 ng/ml (130 aa).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-16	102-P45	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-16	101-M482	Mouse	WB	100µg
Anti-mouse IL-16	103-M410	Rat	WB	100µg

**IL-17A / IL-17 Interleukin-17A**

Product	Catalog#	Source	MW	Size
Human IL-17A / IL-17	100-055S	E. coli	31.0 kDa	5µg
Human IL-17A / IL-17	100-055	E. coli	31.0 kDa	25µg
Mouse IL-17A	M10-239S	E. coli	30.0 kDa	5µg
Mouse IL-17A	M10-239	E. coli	30.0 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent induction of IL-6 in primary human foreskin fibroblasts was found to be approximately 2 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-17A	102-P46	Rabbit	E, WB	100µg
Anti-human IL-17A	102-P162G	Goat	E, WB, N	100µg
Anti-mouse IL-17A	103-P76	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-17	101-M483	Mouse	WB	100µg
Anti-mouse IL-17	103-M411	Rat	WB, N	100µg

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**Anti-mouse IL-17 Receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17 R	101-M484	Mouse	WB, N	100µg
Anti-mouse IL-17 R	103-M245	Rat	WB	100µg

**IL-17B Interleukin-17B**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-17B / IL-17	100-225S	E. coli	36.6 kDa	5µg
Human IL-17B / IL-17	100-225	E. coli	36.6 kDa	25µg

**Biological Activity:** Determined by its ability to induce IL-8 in human PBMCs using a concentration range of 10-100 ng. Please Note: Results may vary with PBMC donors.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17B	102-P164	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17B	101-M485	Mouse	WB	100µg

**Anti-IL-17B Receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17B R	101-M486	Mouse	WB, N	100µg
Anti-mouse IL-17B R	103-M246	Rat	WB	100µg

**Anti-human IL-17C****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17C	101-M487	Mouse	WB	100µg

**IL-17D Interleukin-17D**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-17D / IL-17	100-226S	E. coli	40.5 kDa	5µg
Human IL-17D / IL-17	100-226	E. coli	40.5 kDa	25µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17D	101-M488	Mouse	WB	100µg

**IL-17E Interleukin-17E**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-17E / IL-17	100-227S	E. coli	31.0 kDa	5µg
Human IL-17E / IL-17	100-227	E. coli	31.0 kDa	25µg

**Biological Activity:** Determined by its ability to induce IL-8 in human PBMCs using a concentration range of 10-100 ng.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17E	102-P163	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17E	101-M489	Mouse	WB	100µg
Anti-mouse IL-17E	103-M412	Rat	WB	100µg

**IL-17F Interleukin-17F**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-17F	100-228S	E. coli	30.1 kDa	5µg
Human IL-17F	100-228	E. coli	30.1 kDa	25µg
Mouse IL-17F	M10-240S	E. coli	30.0 kDa	5µg
Mouse IL-17F	M10-240	E. coli	30.0 kDa	25µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17F	102-P234	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-17F	101-M490	Mouse	WB	100µg



**IL-18BP Interleukin-18 binding protein****Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-18BP	103-P47G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-18BPa	101-M492	Mouse	WB	100µg

**Anti-IL-18 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-18 R alpha	101-M493	Mouse	WB, IHC(P), N	100µg
Anti-human IL-18 R beta	101-M494	Mouse	WB, N	100µg
Anti-mouse IL-18 R	103-M247	Rat	WB	100µg

**IL-19 Interleukin-19**

Product	Catalog#	Source	MW	Size
Human IL-19	100-229S	E. coli	17.9 kDa	2µg
Human IL-19	100-229	E. coli	17.9 kDa	10µg

Biological Activity: Data not available yet.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-19	102-P235	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-19	101-M495	Mouse	WB, N	100µg

**IL-20 Interleukin-20**

Product	Catalog#	Source	MW	Size
Human IL-20	100-230S	E. coli	35.2 kDa	2µg
Human IL-20	100-230	E. coli	35.2 kDa	10µg

Biological Activity: Determined by its ability to activate STAT following receptor ligand interaction.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-20	102-P165G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-20	101-M503	Mouse	WB	100µg
Anti-mouse IL-20	103-M415	Rat	WB	100µg

**Anti-IL-20 Receptor alpha****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-20 R alpha	101-M504	Mouse	WB, IHC(P)	100µg
Anti-mouse IL-20 R alpha	103-M249	Rat	WB	100µg

**IL-21**

Product	Catalog#	Source	MW	Size
Mouse IL-21	M10-120S	E. coli	15.0 kDa	2µg
Mouse IL-21	M10-120	E. coli	15.0 kDa	10µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-21	103-P77	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-21	103-M416	Rat	WB	100µg

**Anti-mouse IL-21 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-21 R	101-M505	Mouse	WB	100µg
Anti-mouse IL-21 R	103-M250	Rat	WB	100µg

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**IL-22 Interleukin-22**

Product	Catalog#	Source	MW	Size
Human IL-22	100-413S	E. coli	33,6 kDa	2µg
Human IL-22	100-413	E. coli	33,6 kDa	10µg
Mouse IL-22	M10-072S	E. coli	33,4 kDa	2µg
Mouse IL-22	M10-072	E. coli	33,4 kDa	10µg

**Biological Activity:** Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The expected ED50 for this effect is 0.7- 1.0 ng/ml. Determined by its ability to activate STAT following receptor ligand interaction (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-22	103-P78	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-22	101-M506	Mouse	WB	100µg
Anti-mouse IL-22	103-M417	Rat	WB	100µg

**Anti-human IL-22 BP Interleukin-22 BP****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human IL-22 BP	101-M507	Mouse	WB	100µg

**IL-23 Interleukin-23**

Product	Catalog#	Source	MW	Size
Human IL-23	100-397S	Insect cells	53,5 kDa	2µg
Human IL-23	100-397	Insect cells	53,5 kDa	10µg

**Biological Activity:** Measured by its ability to induce IL-17 secretion by mouse splenocytes.

**Anti-mouse IL-23 Interleukin-23****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-23	103-M418	Rat	WB	100µg

**Anti-mouse IL-23 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-23 R	103-M251	Rat	WB	100µg

**IL-24 Interleukin-24**

Product	Catalog#	Source	MW	Size
Human IL-24	100-104S	CHO cells	18,9 kDa	5µg
Human IL-24	100-104	CHO cells	18,9 kDa	20µg

**Anti-mouse IL-27****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-27	103-M407	Rat	WB	100µg

**Anti-mouse IL-28B****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse IL-28B	103-M419	Rat	WB, N	100µg

**IL-31 Interleukin-31**

Product	Catalog#	Source	MW	Size
Human IL-31	100-232S	E. coli	15,8 kDa	2µg
Human IL-31	100-232	E. coli	15,8 kDa	10µg
Mouse IL-31	M10-073S	E. coli	15,7 kDa	2µg
Mouse IL-31	M10-073	E. coli	15,7 kDa	10µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IL-31	102-P237	Rabbit	E, WB	100µg

<b>IL-33</b>		<b>Interleukin-33</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-33	100-345S	E. coli	17.9 kDa	2µg
Human IL-33	100-345	E. coli	17.9 kDa	10µg
Mouse IL-33	M10-241S	E. coli	17.5 kDa	2µg
Mouse IL-33	M10-241	E. coli	17.5 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells is ≤ 0.05 ng/ml [≥ 2 x 10<sup>7</sup>units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human IL-33	102-P238	Rabbit	E, WB	100µg

<b>IL-34</b>		<b>Interleukin-34</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-34	100-116S	HEK293	52.7 kDa	2µg
Human IL-34	100-116	HEK293	52.7 kDa	10µg

**Biological Activity:** Testing in progress.

<b>IL-36</b>		<b>Interleukin-36</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-36 beta	100-091S	E. coli	17,3 kDa	2µg
Human IL-36 beta	100-091	E. coli	17,3 kDa	10µg
Human IL-36 gamma	100-092S	E. coli	17,0 kDa	2µg
Human IL-36 gamma	100-092	E. coli	17,0 kDa	10µg

**Biological Activity:** Measured by its ability to induce IL-8 production by human PBMCs.

<b>IL-36RA</b>		<b>Interleukin-36</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human IL-36RA	100-414S	E. coli	17,0 kDa	5µg
Human IL-36RA	100-414	E. coli	17,0 kDa	25µg

<b>Anti-human ILT5</b>				
<i>Monoclonal Antibodies</i>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ILT5	101-M511	Mouse	WB	100µg

<b>Anti-mouse Indian Hedgehog</b>				
<i>Monoclonal Antibodies</i>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mo Indian Hedgehog	103-M286	Rat	WB	100µg

<b>Anti-human Insulin Receptor</b>				
<i>Monoclonal Antibodies</i>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Insulin R	101-M514	Mouse	WB	100µg

<b>Anti-human Integrin</b>				
<i>Monoclonal Antibodies</i>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-hu Integrin alpha2	101-M515	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha3	101-M516	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha4	101-M517	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha5	101-M518	Mouse	WB	100µg
Anti-hu Integrin alpha6	101-M519	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha M	101-M520	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha V	101-M521	Mouse	FC, IHC(F)	100µg
Anti-hu Integrin alpha X	101-M522	Mouse	FC, WB	100µg
Anti-hu Integrin beta2	101-M523	Mouse	FC, WB	100µg

**IP-10/CXCL10****gamma-Interferon inducible protein-10**

Product	Catalog#	Source	MW	Size
Human IP-10	100-057S	E. coli	8.5 kDa	5µg
Human IP-10	100-057	E. coli	8.5 kDa	25µg
Mouse IP-10	M10-025S	E. coli	8.7 kDa	5µg
Mouse IP-10	M10-025	E. coli	8.7 kDa	25µg
Rat IP-10	R20-075S	E. coli	8.6 kDa	5µg
Rat IP-10	R20-075	E. coli	8.6 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract human T-Lymphocytes using a concentration of 10-50 ng/ml (human). Determined by its ability to chemoattract IL-2 activated T cells using a concentration range of 0.1-10 ng/ml (mouse). Determined by its ability to chemoattract hCXCR3/HEK293 cells using a concentration range of 10.0-50.0 ng/ml (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human IP-10	102-P48	Rabbit	E, WB, N	100µg
Anti-mouse IP-10	103-P21	Rabbit	E, WB, N	100µg

**I-TAC/CXCL11****Interferon inducible-T cell alpha chemokine**

Product	Catalog#	Source	MW	Size
Human I-TAC	100-058S	E. coli	8.3 kDa	5µg
Human I-TAC	100-058	E. coli	8.3 kDa	20µg
Mouse I-TAC	M10-086S	E. coli	9.0 kDa	5µg
Mouse I-TAC	M10-086	E. coli	9.0 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract IL-2 activated T-cells (human) and mouse CXCR3 transfected HEK/293 cells (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human I-TAC	102-P49	Rabbit	E, WB, N	100µg

**Anti-human Jagged-1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Jagged-1	101-M524	Mouse	FC, WB	100µg

**Anti-JAM****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse JAM-A	103-M257	Rat	WB	100µg
Anti-human JAM-B	101-M525	Mouse	WB, N	100µg
Anti-mouse JAM-B	103-M258	Rat	WB	100µg
Anti-human JAM-C	101-M526	Mouse	WB, N	100µg

**JE (MCP-1)**

Product	Catalog#	Source	MW	Size
Mouse JE (MCP-1)	M10-026S	E. coli	13.8 kDa	2µg
Mouse JE (MCP-1)	M10-026	E. coli	13.8 kDa	10µg

**Biological Activity:** The biological activity of mouse JE was determined by a chemotaxis assay using Balb/c mouse spleen MNCs.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse JE (MCP-1)	103-P22	Rabbit	E, WB, N	100µg

**Anti-human Kallikrein****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Kallikrein-3	101-M530	Mouse	WB	100µg
Anti-human Kallikrein-4	101-M531	Mouse	WB, N	100µg
Anti-human Kallikrein-5	101-M532	Mouse	WB	100µg
Anti-human Kallikrein-7	101-M533	Mouse	WB, N	100µg
Anti-human Kallikrein-8	101-M534	Mouse	WB	100µg
Anti-human Kallikrein-11	101-M527	Mouse	WB, IHC(P)	100µg
Anti-human Kallikrein-13	101-M528	Mouse	WB, N	100µg
Anti-human Kallikrein-15	101-M529	Mouse	WB	100µg

**KC (CXCL1)**

Product	Catalog#	Source	MW	Size
Mouse KC (CXCL1)	M10-027S	E. coli	7.8 kDa	5µg
Mouse KC (CXCL1)	M10-027	E. coli	7.8 kDa	20µg

**Biological Activity:** The biological activity of mouse KC was determined by a chemotaxis assay. The maximal chemotactic response was found to be 100 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse KC (CXCL1)	103-P23	Rabbit	E, WB	100µg

**Anti-Kell (CD238)****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Kell (CD238)	101-M535	Mouse	WB	100µg
Anti-mouse Kell (CD238)	103-M259	Rat	WB	100µg

**Kex-2**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Yeast Kex-2	100-415S	Insect cells	60.4 kDa	50µg
Yeast Kex-2	100-415	Insect cells	60.4 kDa	250µg

**Biological Activity:** Recombinant Kex-2 from High-5 insect cells contains the same specific activity and recognition sequence specificity as yeast derived KEX-2. 1 milligram of recombinant KEX-2 contains activity equivalent to at least 40 units of yeast derived KEX-2. Cleaves at the carboxyl side of K/R-R.

**Anti-human KGF****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human KGF	101-M536	Mouse	WB	100µg

**Anti-human Kniogen****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Kniogen	101-M537	Mouse	WB	100µg

**Anti-human KIR****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human KIR	101-M538	Mouse	WB	100µg

**Anti-human KIR2D****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human KIR2DL1	101-M539	Mouse	FC	100µg
Anti-human KIR2DL3	101-M540	Mouse	FC	100µg
Anti-human KIR2DL4	101-M541	Mouse	FC, NK cell activation	100µg
Anti-human KIR2DS4	101-M542	Mouse	FC, WB	100µg
Anti-human KIR3DL1	101-M543	Mouse	FC, N	100µg

**KLF4-TAT****Kruppel-like factor 4**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human KLF4-TAT	100-416S	HEK293 cells	51.7 kDa	5µg
Human KLF4-TAT	100-416	HEK293 cells	51.7 kDa	25µg

**Klotho**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Klotho	100-346S	CHO cells	17.9 kDa	5µg
Human Klotho	100-346	CHO cells	17.9 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse D10S cells is  $\leq 0.05$  ng/ml [ $\geq 2 \times 10^7$  units/mg].

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Klotho	103-M260	Rat	WB, IHC	100µg

**Anti-mouse Kremen-1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Kremen-1	103-M261	Rat	WB	100µg

**sKDR****Soluble kinase insert domain containing receptor**

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see sVEGFR-2!

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**LAG-1/CCL4L1****Lymphocyte activation gene-1**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human LAG-1	100-234S	E. coli	7.3 kDa	5µg
Human LAG-1	100-234	E. coli	7.3 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract CCR5 transfected cells using a concentration of 0.1-10 ng/ml.

**Anti-human LAG-3****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LAG-3	101-M544	Mouse	WB	100µg

**Anti-human LAMP****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LAMP	101-M545	Mouse	WB	100µg

**Anti-human LAP-TGF beta1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LAP-TGF beta1	101-M546	Mouse	WB, N	100µg

**Anti-human Layilin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Layilin	101-M547	Mouse	WB	100µg

**Anti-mouse LBP****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse LBP	103-M505	Rat	E, N	100µg

**LD78 beta/CCL3L1**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human LD78 beta	100-235S	E. coli	7.7 kDa	5µg
Human LD78 beta	100-235	E. coli	7.7 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LD78 beta	102-P169G	Goat	E, WB	100µg

**LEC/CCL16**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human LEC/NCC-4	100-060S	E. coli	11.2 kDa	5µg
Human LEC/NCC-4	100-060	E. coli	11.2 kDa	20µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LEC/NCC-4	102-P51G	Goat	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LEC	101-M73	Mouse	E	500µg

**Anti-human LECT2****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LECT2	101-M548	Mouse	WB	100µg

**Anti-Lefty****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Lefty-A	103-M549	Mouse	WB	100µg
Anti-mouse Lefty-1	103-M262	Rat	WB	100µg

<b>Leptin</b>		<b>Obesity protein (Ob)</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Leptin	100-061S	E. coli	16.0 kDa	200µg
Human Leptin	100-061	E. coli	16.0 kDa	1000µg
Mouse Leptin	M10-028S	E. coli	16.2 kDa	200µg
Mouse Leptin	M10-028	E. coli	16.2 kDa	1000µg
Rat Leptin	R20-033S	E. coli	16.2 kDa	200µg
Rat Leptin	R20-033	E. coli	16.2 kDa	1000µg

**Biological Activity:** The ob/ob mice were treated via intraperitoneal injection once daily at a dose of 5 µg Leptin/Gm of body weight for 7 days. Significant effects on body weight, food consumption, and plasma glucose levels were observed to saline-treated controls.

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Leptin	102-P52	Rabbit	E, WB	100µg
Anti-mouse Leptin	103-P24	Rabbit	E, WB	100µg
Anti-rat Leptin	104-P29G	Goat	E, WB	100µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Leptin	101-M550	Mouse	WB, N	100µg
Anti-human Leptin	101-M74	Mouse	E, WB	500µg

### **Anti-Leptin Receptor**

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Leptin R	101-M551	Mouse	WB, IHC(P)	100µg
Anti-mouse Leptin R	103-M227	Rat	WB	100µg

### **Anti-human Leukotriene BA R1**

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-hu Leukotriene BA R1	101-M552	Mouse	WB	100µg

### **LIF**

#### **Leukemia Inhibitory Factor**

☞PP

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human LIF	200-007	E. coli	19.7 kDa	10µg
Human LIF	200-008	E. coli	19.7 kDa	50µg
Mouse LIF	M30-007	E. coli	19.7 kDa	10µg
Mouse LIF	M30-008	E. coli	19.7 kDa	50µg

**Biological Activity:** The ED50 as determined by the LIF-induced inhibition of M1 cell proliferation is in the range of 0.1 - 0.5 ng/ml.

#### **Polyclonal Antibodies– Protein-A Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LIF	102-PA05S	Rabbit	WB	100µg
Anti-human LIF	102-PA05	Rabbit	WB	200µg
Anti-mouse LIF	103-PA05S	Rabbit	WB	100µg
Anti-mouse LIF	103-PA05	Rabbit	WB	200µg

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LIF	101-M553	Mouse	WB, N	100µg
Anti-mouse LIF	103-M263	Rat	WB	100µg

### **Anti-human LIF R**

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LIF R	101-M554	Mouse	WB, FC	100µg

### **LIGHT**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human LIGHT	100-106S	Insect cells	20-22.5 kDa	2µg
Human LIGHT	100-106	Insect cells	20-22.5 kDa	15µg
Mouse LIGHT	M10-076S	E. coli	20.1 kDa	5µg
Mouse LIGHT	M10-076	E. coli	20.1 kDa	20µg

#### **Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human LIGHT	102-P172	Rabbit	E, WB	100µg

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**Anti-mouse Limitin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Limitin	103-M264	Rat	WB	100µg

**Anti-mouse LIMP-II***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse LIMP-II	103-M428	Rat	WB	100µg

**Lin28-TAT****Zinc finger CCHC doamin-containing protein 1**

Product	Catalog#	Source	MW	Size
Human Lin28-TAT	100-417S	E. coli	24.4 kDa	5µg
Human Lin28-TAT	100-417	E. coli	24.4 kDa	25µg

**Anti-Lipocalin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Lipocalin-1	101-M555	Mouse	WB	100µg
Anti-human Lipocalin-2	101-M556	Mouse	WB, IHC(P)	100µg
Anti-mouse Lipocalin-2	103-M429	Rat	WB	100µg

**Liver X Receptor beta-LBD**

Product	Catalog#	Source	MW	Size
Human Liver X R beta-LBD	PNb-009	Nicotianan benth.	31.9 kDa	10µg

**LIX**

Product	Catalog#	Source	MW	Size
Mouse LIX/CXCL5 (70aa)	M10-030S	E. coli	9.8 kDa	5µg
Mouse LIX/CXCL5 (70aa)	M10-030	E. coli	9.8 kDa	20µg
Mouse LIX/CXCL5 (93aa)	M10-114S	E. coli	9.8 kDa	5µg
Mouse LIX/CXCL5 (93aa)	M10-114	E. coli	9.8 kDa	20µg

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-mouse LIX	103-P26	Rabbit	E, WB	100µg

See also ENA-78 (human), CXCL5

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse LIX	103-M430	Rat	WB, N	100µg

**Anti-LOX-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human LOX-1	101-M557	Mouse	WB, N	100µg
Anti-mouse LOX-1	103-M431	Rat	WB	100µg

**Anti-mouse LPAM-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse LPAM-1	103-M176	Rat	IHC	200µg

**Anti-mouse L-Selectin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse L-Selectin	103-M108	Rat	IHC	200µg

**Anti-human LTBP-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human LTBP-1	101-M558	Mouse	WB	100µg



**Lungkine (CXCL15)**

Product	Catalog#	Source	MW	Size
Mouse Lungkine	M10-121S	E. coli	16.3 kDa	5µg
Mouse Lungkine	M10-121	E. coli	16.3 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 20-100 ng/ml.

**Anti-mouse Ly-6G***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Ly-6G (G1-1)	103-M206	Rat	IHC, F	100µg

**Anti-mouse Lymphatic Endothelial Cells (LEC26)**

☞ PP

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse LEC #LA102	103-M152	Rat	IHC	100µg

**Lymphotactin/XCL1**

Product	Catalog#	Source	MW	Size
Human Lymphotactin	100-063S	E. coli	10.0 kDa	5µg
Human Lymphotactin	100-063	E. coli	10.0 kDa	20µg

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human Lymphotactin	102-P54	Rabbit	E, WB, N	100µg

**Lymphotoxin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Lymphotoxin	101-M559	Mouse	N	100µg

**sLYVE-1**

soluble Lymphatic endothelium-specific hyaluronan receptor

☞ PP

Product	Catalog#	Source	MW	Size
Human sLYVE-1	S01-028	Insect cells	35-45 kDa	20µg
Mouse sLYVE-1	S01-026	Insect cells	35-45 kDa	20µg

**Anti-LYVE-1**

Lymphatic endothelium-specific hyaluronan receptor

☞ PP

*Polyclonal Antibodies – Protein-A Purified*

Product	Catalog#	Source	Application	Size
Anti-human LYVE-1#	102-PA50S	Rabbit	WB, IHC, FC	100µg
Anti-human LYVE-1#	102-PA50	Rabbit	WB, IHC, FC	200µg
Anti-mouse LYVE-1*	103-PA50S	Rabbit	WB, IHC, FC	100µg
Anti-mouse LYVE-1*	103-PA50	Rabbit	WB, IHC, FC	200µg

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human LYVE-1#	102-PA50AG	Rabbit	WB, IHC, FC	50µg
Anti-mouse LYVE-1*	103-PA50AG	Rabbit	WB, IHC, FC	50µg

*Biotin-conjugated*

Anti-human LYVE-1#	102-PABi50	Rabbit	WB, IHC, FC	50µg
Anti-mouse LYVE-1*	103-PABi50	Rabbit	WB, IHC, FC	50µg

# recombinant human sLYVE-1(Ser24 to Gly232) / \* recombinant mouse sLYVE-1 (Ala24-Gly228)

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human LYVE-1	101-M130	Mouse	E, WB, IHC, FC	100µg
Anti-mouse LYVE-1	103-M130	Rat	E, WB, IHC, FC	100µg

**Anti-human Macroglobulin alpha 2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-hu Macroglobulin a2	101-M560	Mouse	WB	100µg

**Anti-mouse Macrophages***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Macrophages	103-M101	Rat	IP, IHC, F	200µg

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**Anti-mouse MAdCAM-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse MAdCAM-1	103-M432	Rat	WB, Blocking	100µg

**MANF**

Product	Catalog#	Source	MW	Size
Human MANF	100-136S	E. coli	18.1 kDa	5µg
Human MANF	100-136	E. coli	18.1 kDa	25µg

**Biological Activity:** Determined by its ability to stimulate the proliferation of rat C6 cells. The expected ED50 for this effect is 15-25 µg/ml.

**Anti-Maraspin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Maraspin	101-M561	Mouse	WB	100µg
Anti-mouse Maraspin	103-M433	Rat	WB	100µg

**Maspin**

Product	Catalog#	Source	MW	Size
Human Maspin	100-347S	E. coli	42.2 kDa	5µg
Human Maspin	100-347	E. coli	42.2 kDa	20µg

**Anti-MBL***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human MBL	101-M562	Mouse	WB, N	100µg
Anti-mouse MBL-2	103-M434	Rat	WB	100µg

**Anti-human MCAM***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human MCAM	101-M563	Mouse	WB, FC	100µg

**MCPs****Monocyte chemotactic proteins**

Product	Catalog#	Source	MW	Size
Human MCP-1	100-065S	E. coli	8.6 kDa	5µg
Human MCP-1	100-065	E. coli	8.6 kDa	20µg
Mouse JE/MCP-1	M10-026	E. coli	13.8 kDa	10µg
Rat MCP-1	R20-010S	E. coli	14.0 kDa	2µg
Rat MCP-1	R20-010	E. coli	14.0 kDa	10µg
Human MCP-2	100-066S	E. coli	8.9 kDa	2µg
Human MCP-2	100-066	E. coli	8.9 kDa	10µg
Mouse MCP-2	M10-075S	E. coli	8.5 kDa	5µg
Mouse MCP-2	M10-075	E. coli	8.5 kDa	20µg
Human MCP-3	100-067S	E. coli	9.0 kDa	2µg
Human MCP-3	100-067	E. coli	9.0 kDa	10µg
Mouse MCP-3	M10-031S	E. coli	8.5 kDa	2µg
Mouse MCP-3	M10-031	E. coli	8.5 kDa	10µg
Human MCP-4	100-068S	E. coli	8.6 kDa	5µg
Human MCP-4	100-068	E. coli	8.6 kDa	20µg
Mouse MCP-5	M10-032S	E. coli	9.3 kDa	5µg
Mouse MCP-5	M10-032	E. coli	9.3 kDa	20µg

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human MCP-1	102-P55	Rabbit	E, WB, N	100µg
Anti-mouse JE/MCP-1	103-P22	Rabbit	E, WB, N	100µg
Anti-rat MCP-1	104-P08	Rabbit	E, WB, N	100µg
Anti-human MCP-2	102-P56	Rabbit	E, WB, N	100µg
Anti-mouse MCP-2	103-P56	Rabbit	E, WB	100µg
Anti-human MCP-3	102-P57	Rabbit	E, WB, N	100µg
Anti-human MCP-3	102-P177G	Goat	E, WB, N	100µg
Anti-mouse MCP-3	103-P27G	Goat	E, WB	100µg
Anti-human MCP-4	102-P58	Rabbit	E, WB, N	100µg
Anti-human MCP-4	102-P180G	Goat	E, WB, N	100µg
Anti-mouse MCP-5	103-P28	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MCP-1	101-M12	Mouse	E	500µg
Anti-human MCP-2	101-M75	Mouse	E	500µg
Anti-human MCP-3	101-M13	Mouse	E, N	500µg
Anti-human MCP-4	101-M76	Mouse	E, N	500µg

**M-CSF** **Macrophage colony stimulating factor**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human M-CSF	100-064S	E. coli	36.8 kDa	2µg
Human M-CSF	100-064	E. coli	36.8 kDa	10µg
Mouse M-CSF	M10-078S	E. coli	36.4 kDa	2µg
Mouse M-CSF	M10-078	E. coli	36.4 kDa	10µg
Rat M-CSF	R20-050S	E. coli	18.1 kDa	2µg
Rat M-CSF	R20-050	E. coli	18.1 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of mouse M-NSF-60 cells < 5 ng/ml [ $> 2 \times 10^5$  units/mg (h, r)], and < 1.0 ng/ml [ $> 1 \times 10^6$  units/mg (m)].

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human M-CSF	102-P60	Rabbit	E, WB, N	100µg
Anti-mouse M-CSF	103-P63G	Goat	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human M-CSF	101-M564	Mouse	WB, N	100µg

**Anti-human M-CSF R** **Macrophage colony stimulating factor receptor****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human M-CSF R	101-M565	Mouse	WB, N	100µg

**Anti-MD****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MD-1	101-M566	Mouse	WB	100µg
Anti-mouse MD-1	103-M435	Rat	WB	100µg
Anti-human MD-2	101-M567	Mouse	WB	100µg

**MDC/CCL22** **Macrophage-derived chemokine**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MDC (67 a.a.)	100-069S	E. coli	8.0 kDa	5µg
Human MDC (67 a.a.)	100-069	E. coli	8.0 kDa	20µg
Human MDC (69 a.a.)	100-070S	E. coli	8.1 kDa	5µg
Human MDC (69 a.a.)	100-070	E. coli	8.1 kDa	20µg
Mouse MDC	M10-033S	E. coli	7.8 kDa	5µg
Mouse MDC	M10-033	E. coli	7.8 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration range of 10-100 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MDC	102-P61	Rabbit	E, WB, N	100µg
Anti-mouse MDC	103-P66	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MDC	101-M77	Mouse	E	500µg

**MEC/CCL28** **Mucosa-associated epithelial chemokine**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MEC	100-246S	E. coli	12.3 kDa	5µg
Human MEC	100-246	E. coli	12.3 kDa	20µg
Mouse MEC	M10-090S	E. coli	12.6 kDa	5µg
Mouse MEC	M10-090	E. coli	12.6 kDa	20µg

**Anti-human Megalin (#CD7D5)**

☞ PP

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Megalin	101-M144	Mouse	IHC	100µg

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**Anti-Mer****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Mer	101-M568	Mouse	WB	100µg
Anti-mouse Mer	103-M188	Rat	IHC	100µg

**MesP1**

Product	Catalog#	Source	MW	Size
Human MesP1	300-060	Insect cells	34.0 kDa	10µg
Human MesP1	300-061	Insect cells	34.0 kDa	50µg

**Biological Activity:** Test in progress.

**Polyclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MesP1	102-PA52S	Rabbit	WB	100µg
Anti-human MesP1	102-PA52	Rabbit	WB	200µg

**MIA****Melanoma inhibitory activity**

**Synonyms:** CD-RAP (mouse and rat)

Product	Catalog#	Source	MW	Size
Human MIA	100-247S	E. coli	12.2 kDa	5µg
Human MIA	100-247	E. coli	12.2 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependant proliferation of the human A375 melanoma cell line. The expected ED<sub>50</sub> for this effect is 4-6 µg/ml.

**Polyclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIA	102-P239	Rabbit	E, WB	100µg

**MIA-2****Melanoma inhibitory activity 2**

Product	Catalog#	Source	MW	Size
Human MIA-2	100-348S	E. coli	11.5 kDa	5µg
Human MIA-2	100-348	E. coli	11.5 kDa	20µg

**Polyclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIA-2	102-P240	Rabbit	E, WB	100µg

**Anti-human MICA****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MICA	101-M569	Mouse	WB	100µg

**Anti-human MICB****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MICB	101-M570	Mouse	WB, FC	100µg

**Midkine**

Product	Catalog#	Source	MW	Size
Human Midkine	100-071S	E. coli	13.4 kDa	5µg
Human Midkine	100-071	E. coli	13.4 kDa	20µg
Mouse Midkine	M10-095S	E. coli	13.4 kDa	5µg
Mouse Midkine	M10-095	E. coli	13.4 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 0.1-10 ng/ml (human ) or 10-100ng/ml (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Midkine	102-P183	Rabbit	E, WB	100µg

**MIF****Macrophage migration Inhibitory factor**

Product	Catalog#	Source	MW	Size
Human MIF	100-418S	Insect cells	15.0 kDa	5µg
Human MIF	100-418	Insect cells	15.0 kDa	25µg

**Biological Activity:** Determined by its ability to inhibit monocyte migration.

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIF	101-M571	Mouse	WB	100µg

**MIG/CXCL9**

Product	Catalog#	Source	MW	Size
Human MIG	100-072S	E. coli	11.7 kDa	5µg
Human MIG	100-072	E. coli	11.7 kDa	20µg
Mouse MIG	M10-034S	E. coli	12.2 kDa	5µg
Mouse MIG	M10-034	E. coli	12.2 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 0.1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human MIG	102-P62	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIG	101-M78	Mouse	E	500µg

**MIP-1 alpha****Macrophage inflammatory proteins alpha**

Synonyms: CCL3, LD78 alpha

Product	Catalog#	Source	MW	Size
Human MIP-1 alpha	100-073S	E. coli	7.8 kDa	5µg
Human MIP-1 alpha	100-073	E. coli	7.8 kDa	20µg
Mouse MIP-1 alpha	M10-035S	E. coli	7.8 kDa	2µg
Mouse MIP-1 alpha	M10-035	E. coli	7.8 kDa	10µg
Rat MIP-1 alpha	R20-011S	E. coli	7.8 kDa	2µg
Rat MIP-1 alpha	R20-011	E. coli	7.8 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10 ng/ml (human), by its ability to chemoattract mouse Balb/c splenocytes using a concentration range of 10-100 ng/ml (mouse) and by its ability to chemoattract rat peritoneal macrophages using a concentration of 50-100 ng/ml (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human MIP-1 alpha	102-P63	Rabbit	E, WB, N	100µg
Anti-human MIP-1 alpha	102-P241G	Goat	E, WB	100µg
Anti-mouse MIP-1 alpha	103-P29	Rabbit	E, WB, N	100µg
Anti-rat MIP-1 alpha	104-P09	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIP-1 alpha	101-M14	Mouse	E	500µg

**MIP-1 beta****Macrophage inflammatory proteins beta**

Synonyms: CCL4, ACT-2

Product	Catalog#	Source	MW	Size
Human MIP-1 beta	100-074S	E. coli	7.6 kDa	2µg
Human MIP-1 beta	100-074	E. coli	7.6 kDa	10µg
Mouse MIP-1 beta	M10-077S	E. coli	7.8 kDa	2µg
Mouse MIP-1 beta	M10-077	E. coli	7.8 kDa	10µg
Rat MIP-1 beta	R20-035S	E. coli	7.8 kDa	2µg
Rat MIP-1 beta	R20-035	E. coli	7.8 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 5-20 ng/ml (human), 20-100 ng/ml (mouse), and 0.01-1.0 µg/ml (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human MIP-1 beta	102-P64	Rabbit	E, WB, N	100µg
Anti-mouse MIP-1 beta	103-P79	Rabbit	E, WB	100µg

**MIP-1 gamma****Macrophage inflammatory proteins gamma**

Synonyms: CCL9/10, MRP-2, CCF18

Product	Catalog#	Source	MW	Size
Mouse MIP-1 gamma	M10-036S	E. coli	11.6 kDa	5µg
Mouse MIP-1 gamma	M10-036	E. coli	11.6 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 0.1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse MIP-1 gamma	103-P30	Rabbit	E, WB	100µg

**MIP-2/CXCL2****Macrophage inflammatory protein-2**

Product	Catalog#	Source	MW	Size
Mouse MIP-2	M10-037S	E. coli	8.8 kDa	5µg
Mouse MIP-2	M10-037	E. coli	8.8 kDa	20µg

**Biological Activity:** Determined by the inhibitory effect on monocyte migration response to human MIP-1 alpha using a concentration range of 1-10 µg/ml of viral MIP-2 will inhibit 25 ng/ml of human MIP-1 alpha.

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**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse MIP-2	103-P31	Rabbit	E, WB, N	100µg

**MIP-3/CCL23 Macrophage inflammatory protein-3**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MIP-3	100-075S	E. coli	11.3 kDa	5µg
Human MIP-3	100-075	E. coli	11.3 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cell population using a concentration of 10-50 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-3	102-P66	Rabbit	E, WB, N	100µg

**MIP-3 alpha Macrophage inflammatory protein-3 alpha**

**Synonyms:** CCL20, LARC, Exodus-1

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MIP-3 alpha	100-078S	E. coli	8.0 kDa	5µg
Human MIP-3 alpha	100-078	E. coli	8.0 kDa	20µg
Mouse MIP-3 alpha	M10-100S	E. coli	7.9 kDa	5µg
Mouse MIP-3 alpha	M10-100	E. coli	7.9 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration of 10-50 ng/ml (human), by its ability to chemoattract mouse CCR6 transfected HEK/293 cells using a concentration range of 0.1-10 ng/ml (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-3 alpha	102-P67	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-3 alpha	101-M79	Mouse	E	500µg

**MIP-3 beta Macrophage inflammatory protein-3 beta**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MIP-3 beta	100-079S	E. coli	8.8 kDa	5µg
Human MIP-3 beta	100-079	E. coli	8.8 kDa	20µg
Mouse MIP-3 beta	M10-079S	E. coli	9.2 kDa	5µg
Mouse MIP-3 beta	M10-079	E. coli	9.2 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration of 10-50 ng/ml (human), by its ability to chemoattract human mature dendritic cells using a concentration range of 10-100 ng/ml (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-3 beta	102-P68	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-3 beta	101-M80	Mouse	E	500µg

**MIP-4/CCL18 Macrophage inflammatory protein-4**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MIP-4	100-080S	E. coli	7.8 kDa	2µg
Human MIP-4	100-080	E. coli	7.8 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human T lymphocytes using a concentration of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-4	102-P69	Rabbit	E, WB, N	100µg

**MIP-5/CCL15 Macrophage inflammatory protein-5**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human MIP-5	100-081S	E. coli	10.1 kDa	5µg
Human MIP-5	100-081	E. coli	10.1 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract human T lymphocytes using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human MIP-5	102-P70G	Goat	E, WB	100µg

**Anti-MIS****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MIS	101-M572	Mouse	WB	100µg
Anti-mouse MIS	103-M436	Rat	WB	100µg

**MMP-1 Matrix metalloproteinase-1**

Product	Catalog#	Source	MW	Size
Human MMP-1	100-419S	E. coli	42.7 kDa	2µg
Human MMP-1	100-419	E. coli	42.7 kDa	10µg

**Biological Activity:** MMP-1 activity was measured by its ability to cleave a chromogenic peptide MMP-1 substrate at room temperature. At an MMP-1 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of approximately 25 minutes.

**MMP-2 Matrix metalloproteinases-2**

Product	Catalog#	Source	MW	Size
Human MMP-2	100-372S	E. coli	62 kDa	2µg
Human MMP-2	100-372	E. coli	62 kDa	10µg

**Biological Activity:** MMP-2 activity was measured by its ability to cleave a chromogenic peptide MMP-2 substrate at room temperature. At an MMP-2 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of app. 25 min.

**MMP-3 Matrix metalloproteinases-3**

Product	Catalog#	Source	MW	Size
Human MMP-3	100-398S	E. coli	42.8 kDa	2µg
Human MMP-3	100-398	E. coli	42.8 kDa	10µg

**Biological Activity:** MMP-3 activity was measured by its ability to cleave a chromogenic peptide MMP-3 substrate at room temperature. At a MMP-3 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of approximately 75 minutes.

**Matrix metalloproteinases****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MMP-2	101-M573	Mouse	WB	100µg
Anti-human MMP-3	101-M110	Mouse	WB, IHC	100µg
Anti-mouse MMP-3	103-M266	Rat	WB	100µg
Anti-human MMP-7	101-M111	Mouse	WB, IHC	100µg
Anti-human MMP-8	101-M112	Mouse	WB, IHC	100µg
Anti-human MMP-10	101-M113	Mouse	WB, IHC	100µg
Anti-human MMP-12	101-M114	Mouse	WB, IHC	100µg
Anti-human MMP-13	101-M115	Mouse	WB, IHC	100µg
Anti-human MMP-14	101-M116	Mouse	WB, IHC	100µg
Anti-human MMP-15	101-M117	Mouse	WB, IHC	100µg
Anti-human MMP-17	101-M714	Mouse	E, N	100µg
Anti-mouse MMP-24	103-M437	Rat	WB	100µg
Anti-human MMP-25	101-M118	Mouse	WB, IHC	100µg

**Anti-human MSP-2 Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human MSP-2 R	101-M574	Mouse	N	100µg

**Myostatin (GDF8)**

Product	Catalog#	Source	MW	Size
Human Myostatin*	100-255S	E. coli	25.0 kDa	2µg
Human Myostatin*	100-255	E. coli	25.0 kDa	10µg
Human Myostatin	PNb-024	Nicotiana benth.	25.0 kDa	5µg
Human Myostatin	PNb-025	Nicotiana benth.	25.0 kDa	10µg

**Biological Activity:** \*Determined by its ability to inhibit the proliferation of MPC-11 cells. The expected ED<sub>50</sub> for this effect is 17-25 ng/ml.

**Myostatin-Propeptide**

Product	Catalog#	Source	MW	Size
Human Myostatin-Propept.	100-349	E. coli	27.8 kDa	25µg

**Biological Activity:** Determined by its ability to neutralize the Myostatin inhibitory effect of mouse MPC-11 cells. The expected ED<sub>50</sub> is 0.01–0.04 µg/ml in the presence of 50 ng/ml Myostatin.

**Nanog**

Product	Catalog#	Source	MW	Size
Human Nanog	100-350S	E. coli	34.5 kDa	5µg
Human Nanog	100-350	E. coli	34.5 kDa	20µg

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Human Nanog-TAT	100-110S	E. coli	36.2 kDa	5µg
Human Nanog-TAT	100-110	E. coli	36.2 kDa	20µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Nanog	102-P242	Rabbit	E, WB	100µg

**NAP-2/CXCL7****Neutrophil activating protein-2**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human NAP-2	100-082S	E. coli	7.6 kDa	2µg
Human NAP-2	100-082	E. coli	7.6 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human neutrophils using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human NAP-2	102-P71	Rabbit	E, WB, N	100µg
Anti-human NAP-2	102-P191G	Goat	E, WB	100µg

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human NAP-2	101-M81	Mouse	E	500µg

**Anti-human NCAM-L1****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human NCAM-L1	101-M575	Mouse	WB	100µg

**Anti-mouse Neogenin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Neogenin	103-M265	Rat	WB	100µg

**Anti-Nephrilysin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Nephrilysin	101-M576	Mouse	WB, IHC(P)	100µg
Anti-mouse Nephrilysin	103-M438	Rat	WB	100µg

**Nesfatin**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Nesfatin	100-142S	E. coli	9.7 kDa	20µg
Human Nesfatin	100-142	E. coli	9.7 kDa	100µg

**Anti-Netrin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Netrin-1	103-M439	Rat	WB	100µg
Anti-human Netrin-4	101-M577	Mouse	WB	100µg
Anti-mouse Netrin-G1a	103-M440	Rat	WB	100µg

**Anti-human Neuregulin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Neuregulin	101-M578	Mouse	WB	100µg

**Neuritin**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human Neuritin	100-420S	E. coli	9.72 kDa	5µg
Human Neuritin	100-420	E. coli	9.72 kDa	20µg

**Biological Activity:** Determined by a cell proliferation using rat C6 cells. The ED50 for this effect is 20.0-30.0 ng/ml..

**Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Neuritin	101-M579	Mouse	WB	100µg



**Human Neuropilin-1 (NRP-1)**

Product	Catalog#	Source	MW	Size
Human Neuropilin-1	S01-019S	Insect cells	70.9 kDa	5µg
Human Neuropilin-1	S01-019	Insect cells	70.9 kDa	25µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human Neuropilin-1	102-PA23S	Rabbit	E, WB	100µg
Anti-human Neuropilin-1	102-PA23	Rabbit	E, WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Neuropilin-1	102-PA23AG	Rabbit	E, WB	50µg

**Neuropoietin**

Product	Catalog#	Source	MW	Size
Mouse Neuropoietin	M10-122S	E. coli	19.8 kDa	5µg
Mouse Neuropoietin	M10-122	E. coli	19.8 kDa	25µg

**Biological Activity:** The ED<sub>50</sub> was determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is 0.5-0.8 µg/ml.

**Neuroserpin****Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Neuroserpin	102-P243	Rabbit	E, WB, N	100µg

**Anti-human Neurotrimin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Neurotrimin	101-M580	Mouse	WB	100µg

**Anti-human Neuroturin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Neuroturin	101-M581	Mouse	WB, N	100µg

**Neurturin**

Product	Catalog#	Source	MW	Size
Human Neurturin	100-083S	E. coli	23.6 kDa	5µg
Human Neurturin	100-083	E. coli	23.6 kDa	20µg

**Biological Activity:** Human Neurturin at a concentration of 100 ng/ml will support the survival of 65% of newborn rat sympathetic neurons.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Neurturin	102-P72	Rabbit	E, WB, N	100µg

**Anti-mouse Neutrophils****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Neutrophils	103-M100	Rat	WB, IHC	200µg

**beta-NGF****Nerve growth factor beta**

Product	Catalog#	Source	MW	Size
Human beta-NGF	100-084S	E. coli	27.0 kDa	5µg
Human beta-NGF	100-084	E. coli	27.0 kDa	20µg
Mouse beta-NGF	M10-123S	E. coli	13.4 kDa	5µg
Mouse beta-NGF	M10-123	E. coli	13.4 kDa	20µg

**Biological Activity:** Determined by its ability to stimulate chick E9 DRG neurite outgrowth. The ED<sub>50</sub> is < 1 ng/ml [ $> 1 \times 10^6$  units/mg] (human), as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 1.0 ng/ml [ $> 1 \times 10^6$  units/mg] (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human beta-NGF	102-P73	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human beta-NGF	101-M582	Mouse	E, N	100µg
Anti-human beta-NGF	101-M168	Mouse	E, N	500µg

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**Anti-NKG****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NKG2A	101-M583	Mouse	WB, N	100µg
Anti-human NKG2C	101-M584	Mouse	FC	100µg
Anti-human NKG2D	101-M585	Mouse	WB, FC	100µg
Anti-mouse NKG2D	103-M441	Rat	WB	100µg

**Anti-human NK****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NKp30	101-M586	Mouse	FC	100µg
Anti-human NKp46	101-M587	Mouse	WB, IHC(F), FC	100µg
Anti-human NKp80	101-M588	Mouse	FC	100µg

**NNT-1/BCSF-3****Novel neutrophin-1/B-cell stimulating factor-3**

Product	Catalog#	Source	MW	Size
Human NNT-1/BCSF-3	100-259S	E. coli	22,4 kDa	2µg
Human NNT-1/BCSF-3	100-259	E. coli	22,4 kDa	10µg

**Biological Activity:** NT-1/BCSF-3 weakly supports chick E8 DRG neurite outgrowth at a concentration of 1 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human NNT-1	102-P244	Rabbit	E, WB	100µg

**Anti-mouse Nodal****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Nodal	103-M442	Rat	WB	100µg

**NOGGIN**

Product	Catalog#	Source	MW	Size
Human NOGGIN	100-260S	E. coli	23,1 kDa	5µg
Human NOGGIN	100-260	E. coli	23,1 kDa	20µg
Mouse NOGGIN	M10-124S	E. coli	46.4 kDa	5µg
Mouse NOGGIN	M10-124	E. coli	46.4 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> was determined by its ability to inhibit 5 ng/ml of BMP-4 induced alkaline phosphatase production by ATDC-5 chondrogenic cells. The expected ED<sub>50</sub> for this effect is 0.05-0.08 µg/ml (human) and 1.0-2.0 ng/ml (mouse).

**Anti-Nogo receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Nogo receptor	101-M589	Mouse	WB	100µg
Anti-mouse Nogo receptor	103-M267	Rat	WB	100µg

**NOV****Nephroblastoma Overexpressed Gene**

Product	Catalog#	Source	MW	Size
Human NOV	100-351S	E. coli	36.2 kDa	5µg
Human NOV	100-351	E. coli	36.2 kDa	20µg

**Biological Activity:** Determined by a cell proliferation assay using Balb/c 3T3 cells. The expected ED<sub>50</sub> for this effect is 1.0-2.0 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human NOV	102-P245	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NOV	101-M590	Mouse	WB	100µg
Anti-mouse NOV	103-M443	Rat	WB	100µg

**NP-1****Neutrophil Peptide 1**

Product	Catalog#	Source	MW	Size
Human NP-1	100-085S	E. coli	3.4 kDa	5µg
Human NP-1	100-085	E. coli	3.4 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract immature dendritic cells using a concentration of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human NP-1	102-P194G	Goat	E, WB, NA	100µg

**Anti-human NQO1 protein****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NQO1 protein	101-M718	Mouse	WB, ICC (P)	100µg

**Anti-human NrCAM****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NrCAM	101-M591	Mouse	WB	100µg

**NT-3 Neutrophin-3**

Synonyms: Neurotrophic Factor, Nerve growth factor-2 (NGF-2), HGNF

Product	Catalog#	Source	MW	Size
Human NT-3	100-086S	E. coli	27.0 kDa	2µg
Human NT-3	100-086	E. coli	27.0 kDa	10µg
Mouse NT-3	M10-232S	E. coli	27,0 kDa	2µg
Mouse NT-3	M10-232	E. coli	27,0 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures was found to be in the range of 20-50 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human NT-3	102-P74	Rabbit	E, WB, N	100µg
Anti-human NT-3	102-P196G	Goat	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NT-3	101-M592	Mouse	N	100µg

**NT-4 Neutrophin-4**

Product	Catalog#	Source	MW	Size
Human NT-4	100-087S	E. coli	28.1 kDa	2µg
Human NT-4	100-087	E. coli	28.1 kDa	10µg

**Biological Activity:** Determined by the dose-dependent induction of choline acetyl transferase activity in rat basal forebrain primary septal cell cultures (range: 20-50ng/ml).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human NT-4	102-P75	Rabbit	E, WB, N	100µg
Anti-human NT-4	102-P198G	Goat	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human NT-4	101-M593	Mouse	WB	100µg
Anti-human NT-4	101-M15	Mouse	E	500µg

**Anti-mouse OCAM****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse OCAM	103-M444	Rat	WB	100µg

**Anti-mouse Omgp****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Omgp	103-M445	Rat	WB	100µg

**Oncostatin M**

Product	Catalog#	Source	MW	Size
Human Oncostatin M (209)	100-352S	E. coli	23.9 kDa	2µg
Human Oncostatin M (209)	100-352	E. coli	23.9 kDa	10µg
Human Oncostatin M (227)	100-088S	E. coli	26.0 kDa	2µg
Human Oncostatin M (227)	100-088	E. coli	26.0 kDa	10µg
Rat Oncostatin M	R20-057S	E. coli	24,4 kDa	2µg
Rat Oncostatin M	R20-057	E. coli	24,4 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 2 ng/ml [ $> 5 \times 10^5$  units/mg].

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**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Oncostatin M	102-P76	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Oncostatin M	101-M594	Mouse	WB, N	100µg
Anti-mouse Oncostatin M	103-M446	Rat	WB	100µg

**Anti-human Orexin****Monoclonal Antibodies7**

Product	Catalog#	Source	Application	Size
Anti-human Orexin-A	101-M595	Mouse	IHC(F)	100µg
Anti-human Orexin-B	101-M596	Mouse	IHC(F)	100µg

**Anti-Oscar****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Oscar	101-M597	Mouse	WB	100µg
Anti-mouse Oscar	103-M447	Rat	WB	100µg

**Osteopontin**

Product	Catalog#	Source	MW	Size
Human Osteopontin	100-371S	293 cells	60-65 kDa	10µg
Human Osteopontin	100-371	293 cells	60-65 kDa	50µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 10-100 ng/ml.

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Osteopontin	101-M598	Mouse	WB	100µg

**Osteoprotegerin**

Product	Catalog#	Source	MW	Size
Human Osteoprotegerin	100-089S	E. coli	20.0 kDa	10µg
Human Osteoprotegerin	100-089	E. coli	20.0 kDa	50µg

**Biological Activity:** Determined by its ability to neutralize the stimulation of U937 cells treated with 10 ng/ml of soluble RANKL (sRANKL).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human OPG	102-P200	Rabbit	E, WB	100µg

**OTOR****Otoraplin**

Product	Catalog#	Source	MW	Size
Human OTOR	100-353S	E. coli	12.7 kDa	5µg
Human OTOR	100-353	E. coli	12.7 kDa	20µg

**sOX40 Ligand CD252**

Product	Catalog#	Source	MW	Size
Human sOX40 Ligand	S01-052S	Insect cells	15.5-25 kDa	2µg
Human sOX40 Ligand	S01-052	Insect cells	15.5-25 kDa	10µg

**Biological Activity:** Determined by its ability to stimulate IL-8 production by human PBMC using a concentration range of 30-100 ng/ml. Note: Results may vary with PBMC donors.

**P16-INK4a****Cyclin-dependent kinase inhibitor 2A**

Product	Catalog#	Source	MW	Size
Human p16-INK4a	100-421S	E. coli	16.5 kDa	5µg
Human p16-INK4a	100-421	E. coli	16.5 kDa	20µg
Human p16-INK4a-TAT	100-422S	E. coli	18.0 kDa	5µg
Human p16-INK4a-TAT	100-422	E. coli	18.0 kDa	25µg

**Anti-human P38 delta****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human P38 delta	101-M599	Mouse	WB	100µg

### PAF-AH PAF-acetylhydrolase

Product	Catalog#	Source	MW	Size
Human PAF-AH	100-423S	HEK293 cells	47-55 kDa	5µg
Human PAF-AH	100-423	HEK293 cells	47-55 kDa	20µg

**Biological Activity:** Measured by its ability to cleave a PAF analog in a chromogenic substrate linked assay. At a PAF-AH concentration of 10.0 µg/ml, 50% cleavage was achieved at an incubation time of approximately 2 minutes.

### PAI-1 Plasminogen Activator Inhibitor-1

Product	Catalog#	Source	MW	Size
Human PAI-1	100-424S	E. coli	42.7 kDa	2µg
Human PAI-1	100-424	E. coli	42.7 kDa	10µg

**Biological Activity:** Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37°C. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 2.0 µg/ml.

#### *Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human PAI-1	102-P246	Rabbit	E, WB	100µg

### PAI-2 Plasminogen Activator Inhibitor-2

Product	Catalog#	Source	MW	Size
Human PAI-2	100-425S	E. coli	45.6 kDa	2µg
Human PAI-2	100-425	E. coli	45.6 kDa	10µg

**Biological Activity:** Determined by its inhibitory effect against single chain tPA induced cleavage of a chromogenic substrate in Imidazole Buffer at 37°C. Half maximal inhibition against 1.0 µg/ml of single chain tPA was obtained at a concentration of 1.0 µg/ml.

### Anti-mouse Pan Endothelial Cell Marker

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Pan EC marker	103-M190	Rat	IHC, FC, IP	100µg

### Anti-human Pappalysin-2

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Pappalysin-2	101-M600	Mouse	WB	100µg

### Anti-mouse PARP

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse PARP	103-M448	Rat	WB	100µg

### Anti-P-Cadherin

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human P-Cadherin	101-M601	Mouse	WB, IHC(F), FC	100µg
Anti-mouse P-Cadherin	103-M449	Rat	WB	100µg

### Anti-mouse PCPE-1

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse PCPE-1	103-M450	Rat	WB	100µg

### Anti-human PD-1

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human PD-1	101-M602	Mouse	WB, N	100µg

### Anti-human PD-ECGF

#### *Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human PD-ECGF	101-M603	Mouse	WB	100µg

## PDGF AA, AB, BB PP Platelet-derived Growth Factor

Synonyms: Glioma-derived growth factor (GDGF), Osteosarcoma-derived growth factor (ODGF)

Product	Catalog#	Source	MW	Size
Human PDGF-AA	200-051S	E. coli	28.5 kDa	2µg
Human PDGF-AA	200-051	E. coli	28.5 kDa	5µg
Human PDGF-AA	200-052	E. coli	28.5 kDa	20µg
Mouse PDGF-AA	M10-049S	E. coli	28.7 kDa	2µg
Mouse PDGF-AA	M10-049	E. coli	28.7 kDa	10µg
Human PDGF-AB	200-053S	E. coli	25.5 kDa	2µg
Human PDGF-AB	200-053	E. coli	25.5 kDa	5µg
Human PDGF-AB	200-054	E. coli	25.5 kDa	20µg
Human PDGF-BB	200-055S	E. coli	24.3 kDa	2µg
Human PDGF-BB	200-055	E. coli	24.3 kDa	5µg
Human PDGF-BB	200-056	E. coli	24.3 kDa	20µg
Mouse PDGF-BB	M10-125S	E. coli	24.4 kDa	2µg
Mouse PDGF-BB	M10-125	E. coli	24.4 kDa	10µg

**Biological Activity:** Human: The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is < 1 ng/ml [ $> 1 \times 10^6$  units/mg], Mouse: The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells is 1-2 ng/ml (PDGF-BB) and 8-10 ng/ml (PDGF-AA).

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human PDGF-AA	102-P77	Rabbit	E, WB, N	100µg
Anti-human PDGF-BB	102-P78	Rabbit	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human PDGF-AA	101-M44	Mouse	E, WB	100µg
Anti-human PDGF-BB	101-M45	Mouse	E, WB	100µg

## PDGF-CC PP Platelet-derived Growth Factor-CC

Product	Catalog#	Source	MW	Size
Human PDGF-CC	100-354S	E. coli	25.0 kDa	5µg
Human PDGF-CC	100-354	E. coli	25.0 kDa	20µg

**Biological Activity:** Determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. The expected The ED<sub>50</sub> for this effect is 15-20 ng/ml.

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse PDGF-C	103-M451	Rat	WB	100µg

## Anti-PDGF receptor alpha / beta

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human PDGFR-alpha	101-M42	Mouse	E, WB	100µg
Anti-human PDGFR-beta	101-M43	Mouse	E, WB	100µg
Anti-mouse PDGFR-alpha	103-M43	Rat	E, WB	100µg
Anti-mouse PDGFR-beta	103-M44	Rat	E, WB	100µg

## Anti-human PD-L2

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human PD-L2	101-M604	Mouse	WB, IHC(P), FC	100µg

## PECAM-1 PP CD31 antigen

Product	Catalog#	Source	MW	Size
Human PECAM-1	100-386	Hek 293	80-95kDa	50µg

**Biological Activity:** Testing in Progress!

## Anti-human PECAM-1/CD31 “Antagonistic”

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse PECAM-1	mP1001r-m	Rat	“Antagonistic”	200µg

## PEDF PP Pigment epithelium-derived factor

Product	Catalog#	Source	MW	Size
Human PEDF	100-355S	E. coli	44.5 kDa	5µg
Human PEDF	100-355	E. coli	44.5 kDa	20µg

**Biological Activity:** Data not available yet.

**Anti-Pentraxin-3****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Pentraxin-3	101-M605	Mouse	WB	100µg
Anti-mouse Pentraxin-3	103-M452	Rat	WB	100µg

**Persephin**

Product	Catalog#	Source	MW	Size
Human Persephin	100-120S	E. coli	20.6 kDa	5µg
Human Persephin	100-120	E. coli	20.6 kDa	20µg
Mouse Persephin	M10-126S	E. coli	20.6 kDa	5µg
Mouse Persephin	M10-126	E. coli	20.6 kDa	20µg

**Biological Activity:** Human Persephin induces RET phosphorylation using a concentration range of 0.1-1.0 ng/ml. Human Persephin binds to mammalian GFRa4 with the Kd of 100pM. Other members of the GDNF family (Artemin, GDNF and Neurturin) do not bind to mammalian GFRa4. The ED<sub>50</sub> of mouse Persephin was determined by its ability to stimulate proliferation of human thyroid carcinoma cells (TT cells) is < 0.1 ng/ml [ $> 1 \times 10^7$  units/mg].

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Persephin	102-P247	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Persephin	103-M453	Rat	WB	100µg

**PF-4/CXCL4****Platelet factor-4**

Product	Catalog#	Source	MW	Size
Human PF-4	100-093S	E. coli	7.8 kDa	5µg
Human PF-4	100-093	E. coli	7.8 kDa	20µg
Mouse PF-4	M10-230S	E. coli	8.2 kDa	5µg
Mouse PF-4	M10-230	E. coli	8.2 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human fibroblasts using a concentration range of 1-10 ng/ml (human). Determined by its ability to chemoattract human neutrophils using a concentration range of 10-100 ng/ml (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human PF-4	102-P79	Rabbit	E, WB, N	100µg

**Anti-human PIN****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human PIN	101-M606	Mouse	WB	100µg

**Anti-mouse Plasminogen Kringle 5****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mo Plasminogen K5	103-M454	Rat	WB	100µg

**Pleiotrophin**

Product	Catalog#	Source	MW	Size
Human Pleiotrophin	100-094S	E. coli	15.4 kDa	5µg
Human Pleiotrophin	100-094	E. coli	15.4 kDa	20µg

**Anti-mouse Plfr****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Plfr	103-M455	Rat	WB	100µg

**Human PIGF-1****Placenta growth factor-1****PP**

Product	Catalog#	Source	MW	Size
Human PIGF-1	300-015S	Insect cells	34.0 kDa	2µg
Human PIGF-1	300-015	Insect cells	34.0 kDa	5µg
Human PIGF-1	300-016	Insect cells	34.0 kDa	20µg
Human PIGF-1/His	300-017S	Insect cells	36.0 kDa	2µg
Human PIGF-1/His	300-017	Insect cells	36.0 kDa	5µg
Human PIGF-1/His	300-018	Insect cells	36.0 kDa	20µg

**Biological Activity:** Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant human PIGF-1 can bind to immobilized rh-sFlt-1 (100ng/well) with a linear range at 0.5-10 ng/mL.

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## Human PIGF-2 PP

Product	Catalog#	Source	MW	Size
Human PIGF-2	300-019S	Insect cells	46.0 kDa	2µg
Human PIGF-2	300-019	Insect cells	46.0 kDa	5µg
Human PIGF-2	300-020	Insect cells	46.0 kDa	20µg

**Biological Activity:** Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant PIGF-2 can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.3-10 ng/mL.

## Mouse PIGF PP

Product	Catalog#	Source	MW	Size
Mouse PIGF	M30-019S	Insect cells	~30.0 kDa	2µg
Mouse PIGF	M30-019	Insect cells	~30.0 kDa	5µg
Mouse PIGF	M30-020	Insect cells	~30.0 kDa	20µg

**Biological Activity:** Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant PIGF can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.3-10 ng/mL.

## Rat PIGF PP

Product	Catalog#	Source	MW	Size
Rat PIGF	R20-061S	Insect cells	~30.0 kDa	2µg
Rat PIGF	R20-061	Insect cells	~30.0 kDa	5µg
Rat PIGF	R20-062	Insect cells	~30.0 kDa	20µg

**Biological Activity:** Measured by its ability to bind to immobilized rh-sFlt-1 in a functional ELISA. Recombinant PIGF can bind to immobilized rh-sFlt-1 (100 ng/well) with a linear range at 0.3-10 ng/mL.

## Anti-human PIGF PP

### Polyclonal Antibodies – Protein-A Purified

Product	Catalog#	Source	Application	Size
Anti-human PIGF*	102-PA01S	Rabbit	WB, IHC	100µg
Anti-human PIGF*	102-PA01	Rabbit	WB, IHC	200µg
Anti-human PIGF (nat)#	102-PA04S	Rabbit	B	100µg
Anti-human PIGF (nat)#	102-PA04	Rabbit	WB	200µg

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human PIGF (nat)#	102-PA04AG	Rabbit	WB	50µg
Anti-human PIGF	102-P248	Rabbit	WB	100µg

\* N-terminal Peptide; # recombinant human PIGF-1

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human PIGF	101-M03	Mouse	E, WB	100µg
Anti-human PIGF (#331/H12)	101-M69	Mouse	E, WB	100µg
Anti-human PIGF-2 (#3/B10)	101-M65	Mouse	WB, IHC	100µg
Anti-human PIGF (#178/G10)	101-M67	Mouse	E, WB	100µg
Anti-human PIGF (#178/G10)	101-MBi67	Mouse	E, WB	50µg

### Biotin-conjugated

Anti-mouse PIGF	103-M03	Rat	E, WB	100µg
Anti-mouse PIGF	mP1002r-m	Rat	Blocking mab	200µg

## Anti-mouse PIGF PP

### Polyclonal Antibodies – Protein-A Purified

Product	Catalog#	Source	Application	Size
Anti-mouse PIGF*	103-PA04S	Rabbit	WB	100µg
Anti-mouse PIGF*	103-PA04	Rabbit	WB	200µg

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-mouse PIGF*	103-PA07AG	Rabbit	WB	50µg

\* recombinant mouse PIGF

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse PIGF	103-M03	Rat	E, WB	100µg
Anti-mouse PIGF	mP1002r-m	Rat	Blocking mab	200µg

## Anti-rat PIGF PP

### Polyclonal Antibodies – Protein-A Purified

Product	Catalog#	Source	Application	Size
Anti-rat PIGF*	104-PA04S	Rabbit	WB	100µg
Anti-rat PIGF*	104-PA04	Rabbit	WB	200µg



**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-rat PIGF*	104-PA04AG	Rabbit	WB	50µg

\* recombinant rat PIGF

**PIGF-3 Placenta growth factor-3**

Product	Catalog#	Source	MW	Size
Human PIGF-3	100-370S	E. coli	45.7 kDa	5µg
Human PIGF-3	100-370	E. coli	45.7 kDa	25µg

**Biological Activity:** Determined by its ability to chemoattract human monocytes using a concentration range of 5 - 50 ng/ml.**Anti-human Podocalyxin (#GB6D9)**

☞ PP

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Podocalyxin	101-M142	Mouse	IHC	100µg

**Podoplanin**

☞ PP

Product	Catalog#	Source	MW	Size
Human Podoplanin	S01-046	E. coli	23.0 kDa	5µg
Mouse Podoplanin	S01-M46	E. coli	19.0 kDa	5µg
Rat Podoplanin	S01-R46	E. coli	24.0 kDa	5µg

**Anti-Podoplanin**

☞ PP

**Polyclonal Antibodies - Protein-A purified**

Product	Catalog#	Source	Application	Size
Anti-human Podoplanin*	102-PA40S	Rabbit	WB, IHC	100µg
Anti-human Podoplanin*	102-PA40	Rabbit	WB, IHC	200µg
Anti-mouse Podoplanin	103-PA40S	Rabbit	WB, IF	100µg
Anti-mouse Podoplanin	103-PA40	Rabbit	WB, IF	200µg

**Polyclonal Antibodies – Antigen-Affinity purified**

Product	Catalog#	Source	Application	Size
Anti-human Podoplanin*	102-PA40AG	Rabbit	WB, IHC	50µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Podoplanin*	101-M40	Mouse	E, WB, IHC, FC	100µg
Anti-human Podoplanin	101-M41	Mouse	IHC	100µg
Anti-mouse Podoplanin#	103-M40	Hamster	E, WB, IHC, FC	100µg
Anti-rat Podoplanin	104-M40	Mouse	IHC	100µg

**Biotin-conjugated**

Anti-human Podoplanin*	101-MBi40	Mouse	E, WB, IHC, FC	50µg
Anti-mouse Podoplanin#	103-MBi40	Hamster	E, WB, IHC, FC	50µg

**FITC-conjugated**

Anti-human Podoplanin*	101-M40S-FITC	Mouse	FC	25µg
Anti-human Podoplanin*	101-M40-FITC	Mouse	FC	50µg

**PE-conjugated**

Anti-human Podoplanin*	101-M40S-PE	Mouse	FC	25µg
Anti-human Podoplanin*	101-M40-PE	Mouse	FC	50µg

\* recombinant human sPodoplanin

# mouse thymic stromal cell line

**Human PRAME (C-terminal fragment)**

☞ PP

Product	Catalog#	Source	MW	Size
Human PRAME	400-016	E. coli	10.7 kDa	20µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human PRAME	102-PA28S	Rabbit	E, WB	100µg
Anti-human PRAME	102-PA28	Rabbit	E, WB	200µg

**Anti-human Pref****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Pref	101-M607	Mouse	WB, FC	100µg

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**Anti-human Presenilin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Presenilin-1	101-M608	Mouse	WB, IHC(P)	100µg
Anti-human Presenilin-2	101-M609	Mouse	WB	100µg

**Prokineticin-2**

Product	Catalog#	Source	MW	Size
Human Prokineticin-2	100-272S	E. coli	8.8 kDa	5µg
Human Prokineticin-2	100-272	E. coli	8.8 kDa	20µg

**Prolactin**

Product	Catalog#	Source	MW	Size
Human Prolactin	100-273S	E. coli	23.0 kDa	10µg
Human Prolactin	100-273	E. coli	23.0 kDa	50µg
Mouse Prolactin	M10-127S	E. coli	22.5 kDa	10µg
Mouse Prolactin	M10-127	E. coli	22.5 kDa	50µg
Rat Prolactin	R20-051S	E. coli	22.6 kDa	10µg
Rat Prolactin	R20-051	E. coli	22.6 kDa	50µg

**Biological Activity:** Determined by its ability to induce the proliferation of rat Nb2-11 cells in the concentration range of 0.1-1.0 ng/ml.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Prolactin	101-M610	Mouse	WB	100µg
Anti-mouse Prolactin	103-M456	Rat	WB	100µg

**Anti-human Prolactin Receptor***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Prolactin R	101-M611	Mouse	WB, N	100µg

**Prox-1 (Ala547-Glu736)**☞ *PP*

Product	Catalog#	Source	MW	Size
Human Prox-1	300-052	E. coli	20.0 kDa	20µg

**Anti-human Prox-1**☞ *PP**Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human Prox-1#	102-PA32S	Rabbit	WB, IF	100µg
Anti-human Prox-1#	102-PA32	Rabbit	WB, IF	200µg

*Polyclonal Antibodies – Antigen Affinity Purified*

Product	Catalog#	Source	Application	Size
Anti-human Prox-1#	102-PA32AG	Rabbit	WB, IF	50µg
<b>Biotin-conjugated</b> Anti-human Prox-1#	102-PABi32	Rabbit	WB, IF	50µg

# recombinant human Prox-1 (Ala547-Glu736)

**Anti-mouse P-Selectin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse P-Selectin	103-M457	Rat	WB	100µg

**PTHrP****Parathyroid hormone-related protein**

Product	Catalog#	Source	MW	Size
Human PTHrP	100-275S	E. coli	9.8 kDa	10µg
Human PTHrP	100-275	E. coli	9.8 kDa	50µg

**Anti-mouse RAGE***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human RAGE	101-M612	Mouse	WB, N	100µg
Anti-mouse RAGE	103-M268	Rat	WB, IHC	100µg

**sRANKL Soluble receptor activator of NFkB ligand**

Synonyms: TNFSF11, TRANCE (TNF activation-induced cytokine), OPGL (Osteoprotegerin ligand)

Product	Catalog#	Source	MW	Size
Human sRANKL	100-276S	E. coli	20.0 kDa	2µg
Human sRANKL	100-276	E. coli	20.0 kDa	10µg
Human sRANKL	PNb-043	Nicotiana benth.	20.0 kDa	10µg
Human sRANKL	PNb-044	Nicotiana benth.	20.0 kDa	50µg
Mouse sRANKL	M10-080S	E. coli	19.4 kDa	2µg
Mouse sRANKL	M10-080	E. coli	19.4 kDa	10µg
Rat RANKL	R20-020S	E. coli	19.4 kDa	2µg
Rat RANKL	R20-020	E. coli	19.4 kDa	10µg

**Biological Activity:** Determined by its ability to induce osteoclast formation in RAW264.7 cells using a concentration range of 5-10 ng/ml. Rat: Determined by its ability to induce NFkappaB in RAW264.7 cells in the absence of any cross-linking. The expected ED<sub>50</sub> for this effect is 10.0-25.0 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human sRANKL	102-P204	Rabbit	E, WB	100µg
Anti-human sRANKL	102-P205G	Goat	E, WB	100µg
Anti-mouse sRANKL	103-P71	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human sRANKL	101-M82	Mouse	E	500µg

**sRANK Receptor soluble Rank receptor**

Product	Catalog#	Source	MW	Size
Human sRANK Receptor	100-117S	E. coli	19.3 kDa	20µg
Human sRANK Receptor	100-117	E. coli	19.3 kDa	100µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human sRANKR	102-P206	Rabbit	E, WB	100µg

**RANTES Regulated upon activation normal T cell expressed sequence**

Product	Catalog#	Source	MW	Size
Human RANTES	100-095S	E. coli	7.8 kDa	5µg
Human RANTES	100-095	E. coli	7.8 kDa	20µg
Mouse RANTES	M10-038S	E. coli	7.8 kDa	5µg
Mouse RANTES	M10-038	E. coli	7.8 kDa	20µg
Rat RANTES	R20-012S	E. coli	7.9 kDa	5µg
Rat RANTES	R20-012	E. coli	7.9 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human blood monocytes using a concentration range of 1-10 ng/ml (human), a total human lymphocyte population and total mouse T cell population using a concentration range of 1-10 ng/ml (mouse) and a rat peritoneal macrophages using a concentration range of 10-50 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human RANTES	102-P80	Rabbit	E, WB, N	100µg
Anti-mouse RANTES	103-P32	Rabbit	E, WB, N	100µg
Anti-rat RANTES	104-P10	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human RANTES	101-M16	Mouse	E, N	500µg

**Anti-Ras****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Ras	101-M613	Mouse	WB	100µg
Anti-mouse Ras	103-M458	Rat	WB	100µg

**Anti-RECK****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human RECK	101-M614	Mouse	WB	100µg

**Anti-Reg****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Reg IV	101-M615	Mouse	WB	100µg
Anti-mouse Reg II	103-M459	Rat	WB	100µg

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**Relaxin**

Product	Catalog#	Source	MW	Size
Human Relaxin-2	100-113S	E. coli	6.0 kDa	5µg
Human Relaxin-2	100-113	E. coli	6.0 kDa	25µg
Human Relaxin-3	100-356S	E. coli	5.5 kDa	5µg
Human Relaxin-3	100-356	E. coli	5.5 kDa	25µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Relaxin-1	101-M616	Mouse	WB, N	100µg
Anti-human Relaxin-3	101-M617	Mouse	WB, N	100µg

**RELM alpha****Resistin-like molecule alpha**

Synonyms: Cystein-rich secreted protein FIZZ1

Product	Catalog#	Source	MW	Size
Mouse RELM alpha	M10-081S	E. coli	18.5 kDa	5µg
Mouse RELM alpha	M10-081	E. coli	18.5 kDa	20µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse RELM alpha	103-P80	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse RELM alpha	103-M460	Rat	WB	100µg

**RELM beta****Resistin-like molecule beta**

Product	Catalog#	Source	MW	Size
Human RELM beta	100-279S	E. coli	19.0 kDa	5µg
Human RELM beta	100-279	E. coli	19.0 kDa	25µg
Mouse RELM beta	M10-082S	E. coli	9.5 kDa	5µg
Mouse RELM beta	M10-082	E. coli	9.5 kDa	25µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human RELM beta	102-P249	Rabbit	E, WB	100µg
Anti-mouse RELM beta	103-P50	Rabbit	E, WB	100µg

**RELM gamma****Resistin-like molecule gamma**

Product	Catalog#	Source	MW	Size
Mouse RELM gamma	M10-053S	E. coli	9.2 kDa	5µg
Mouse RELM gamma	M10-053	E. coli	9.2 kDa	25µg

**Resistin**

Product	Catalog#	Source	MW	Size
Human Resistin	100-280S	E. coli	19.5 kDa	5µg
Human Resistin	100-280	E. coli	19.5 kDa	25µg
Mouse Resistin	M10-084S	E. coli	20.2 kDa	5µg
Mouse Resistin	M10-084	E. coli	20.2 kDa	25µg
Rat Resistin	R20-054S	E. coli	20.0 kDa	5µg
Rat Resistin	R20-054	E. coli	20.0 kDa	25µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human Resistin	102-P92G	Goat	E, WB	100µg
Anti-mouse Resistin	103-P51G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Resistin	101-M618	Mouse	WB	100µg
Anti-human Resistin	101-M170	Mouse	E, WB	500µg
Anti-mouse Resistin	103-M461	Rat	WB	100µg

**Anti-Ret****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Ret	101-M619	Mouse	WB	100µg
Anti-mouse Ret	103-M192	Rat	WB	100µg

**Anti-human ROR2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human ROR2	101-M620	Mouse	WB	100µg

**R-Spondin-1****Roof plate-specific Spondin-1**

Product	Catalog#	Source	MW	Size
Human R-Spondin-1	100-130S	CHO cells	40.0 kDa	5µg
Human R-Spondin-1	100-130	CHO cells	40.0 kDa	20µg

**Biological Activity:** R-spondin-1 enhances BMP-2 mediated differentiation of MC3T3-E1 cells. The expected ED50 is 1.0-3.0 ug/ml.

**R-Spondin-2****Roof plate-specific Spondin-2**

Product	Catalog#	Source	MW	Size
Human R-Spondin-2	100-426S	CHO cells	40.0 kDa	5µg
Human R-Spondin-2	100-426	CHO cells	40.0 kDa	20µg

**Biological Activity:** R-Spondin-2 enhances BMP-2 mediated differentiation of MC3T3-E1 cells.ml.

**R-Spondin-3****Roof plate-specific Spondin-3**

Product	Catalog#	Source	MW	Size
Human R-Spondin-3	100-427S	CHO cells	40.0 kDa	5µg
Human R-Spondin-3	100-427	CHO cells	40.0 kDa	20µg

**Biological Activity:** R-Spondin-3 enhances BMP-2 mediated differentiation of MC3T3-E1 cells.ml.

**Anti-mouse Sca-1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Sca-1	103-M477	Rat	IHC(F)	100µg

**SCF****Stem cell factor****PP**

Product	Catalog#	Source	MW	Size
Human SCF	400-013S	Insect cells	20-23 kDa	2µg
Human SCF	400-013	Insect cells	20-23 kDa	5µg
Human SCF	400-014	Insect cells	20-23 kDa	20µg
Human SCF	400-014-SC	Insect cells	20-23 kDa	50µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is typically 2-5 ng/ml.

Product	Catalog#	Source	MW	Size
Human SCF	100-097S	E. coli	18.4 kDa	2µg
Human SCF	100-097	E. coli	18.4 kDa	10µg
Human SCF	100-097-SC	E. coli	18.4 kDa	50µg
Mouse SCF	M30-010S	E. coli	18.3 kDa	2µg
Mouse SCF	M30-010	E. coli	18.3 kDa	10µg
Mouse SCF	M30-011	E. coli	18.3 kDa	50µg
Rat SCF	R20-040S	E. coli	18.4 kDa	2µg
Rat SCF	R20-040	E. coli	18.4 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 2.0 ng/ml [ $> 5 \times 10^5$  units/mg] (human); < 10 ng/ml [ $> 1 \times 10^5$  units/mg] (mouse, rat).

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse SCF	103-PA08S	Rabbit	WB	100µg
Anti-mouse SCF	103-PA08	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human SCF	102-P81	Rabbit	E, WB, N	100µg
Anti-human SCF	102-P81G	Goat	E, WB, N	100µg
Anti-mouse SCF	103-PA08AG	Rabbit	WB	50µg
Anti-mouse SCF	103-P33	Rabbit	E, WB, N	100µg
Anti-rat SCF	104-P30	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human SCF	101-M621	Mouse	WB	100µg
Anti-human SCF	101-M83	Mouse	E	500µg

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**Anti-SCF-R****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human SCF-R	101-M622	Mouse	WB, N	100µg
Anti-mouse SCF-R	103-M194	Rat	WB, IHC	100µg

**SCGF-alpha / -beta**      **Stem cell growth factor**

Product	Catalog#	Source	MW	Size
Human SCGF-alpha	100-098S	E. coli	33.9 kDa	2µg
Human SCGF-alpha	100-098	E. coli	33.9 kDa	10µg
Human SCGF-beta	100-096S	E. coli	25.0 kDa	2µg
Human SCGF-beta	100-096	E. coli	25.0 kDa	10µg

**Biological Activity:** Determined by its inhibitory effect on the proliferation of TF-1 cells previously grown in media containing GM-CSF. The ED<sub>50</sub> for this effect was observed at 2.5 ng/ml (alpha) and 7 ng/ml (beta), respectively.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human SCGF-alpha	102-P93	Rabbit	E, WB, N	100µg
Anti-human SCGF-beta	102-P150G	Goat	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human SCGF	101-M623	Mouse	WB, IHC	100µg

**Anti-mouse Sclerostin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Sclerostin	103-M270	Rat	WB	100µg

**SDF-1 alpha**      **Stromal cell-derived factor-1 alpha**

Product	Catalog#	Source	MW	Size
Human SDF-1 alpha	100-099S	E. coli	8.0 kDa	2µg
Human SDF-1 alpha	100-099	E. coli	8.0 kDa	10µg
Mouse SDF-1 alpha	M10-040S	E. coli	7.9 kDa	2µg
Mouse SDF-1 alpha	M10-040	E. coli	7.9 kDa	10µg
Rat SDF-1 alpha	R20-052S	E. coli	7.9 kDa	2µg
Rat SDF-1 alpha	R20-052	E. coli	7.9 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration of 20-80 ng/ml (human) and human monocytes using a concentration range of 50-100 ng/ml (mouse, rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human SDF-1 alpha	102-P82	Rabbit	E, WB, N	100µg
Anti-mouse SDF-1 alpha	103-P34G	Goat	E, WB, N	100µg

**SDF-1 beta**      **Stromal cell-derived factor-1 beta**

Product	Catalog#	Source	MW	Size
Human SDF-1 beta	100-100S	E. coli	8.5 kDa	2µg
Human SDF-1 beta	100-100	E. coli	8.5 kDa	10µg
Mouse SDF-1 beta	M10-085S	E. coli	8.5 kDa	2µg
Mouse SDF-1 beta	M10-085	E. coli	8.5 kDa	10µg
Rat SDF-1 beta	R20-056S	E. coli	8.4 kDa	2µg
Rat SDF-1 beta	R20-056	E. coli	8.4 kDa	10µg

**Biological Activity:** Determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration range of 20-80 ng/ml (human) and human monocytes using a concentration range of 50-100 ng/ml (mouse). Determined by its ability to chemoattract human peripheral blood monocytes at 100-150ng/ml (rat).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human SDF-1 beta	102-P83G	Goat	E, WB	100µg

**Semaphorin****SEMAD**

Product	Catalog#	Source	MW	Size
Human Semaphorin 3A	100-151S	CHO cells	>82 kDa	5µg
Human Semaphorin 3A	100-151	CHO cells	>82 kDa	25µg

**Anti-Semaphorin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse Semaphorin 3C	103-M462	Rat	WB	100µg
Anti-human Semaphorin 6A	101-M624	Mouse	WB	100µg
Anti-mouse Semaphorin 6A	103-M463	Rat	WB, IHC(F)	100µg
Anti-mouse Semaphorin 6B	103-M464	Rat	WB	100µg
Anti-human Semaphorin 6C	101-M625	Mouse	WB	100µg
Anti-mouse Semaphorin 6C	103-M465	Rat	WB, IHC(F)	100µg
Anti-human Semaphorin 7A	101-M626	Mouse	WB	100µg
Anti-mouse Semaphorin 7A	103-M466	Rat	WB	100µg

**Anti-Serpin****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Serpin A1	101-M627	Mouse	WB	100µg
Anti-human Serpin A3	101-M628	Mouse	WB	100µg
Anti-mouse Serpin A5	103-M467	Rat	WB	100µg
Anti-mouse Serpin C1	103-M468	Rat	WB	100µg
Anti-mouse Serpin E2	103-M469	Rat	WB	100µg
Anti-mouse Serpin F1	103-M470	Rat	WB	100µg
Anti-mouse Serpin F2	103-M471	Rat	WB	100µg

**SF20**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Mouse SF20	M10-092S	E. coli	15.8 kDa	2µg
Mouse SF20	M10-092	E. coli	15.8 kDa	10µg

**Polyclonal Antibodies – Antigen Affinity Purified**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human SF20	103-P81	Rabbit	E, WB	100µg

**Anti-SIGIRR****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human SIGIRR	101-M629	Mouse	WB	100µg
Anti-mouse SIGIRR	103-M472	Rat	WB	100µg

**Anti-Siglec****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human Siglec-3	101-M631	Mouse	WB	100µg
Anti-human Siglec-5	101-M632	Mouse	WB, IHC(P)	100µg
Anti-human Siglec-7	101-M633	Mouse	WB, IHC(P)	100µg
Anti-human Siglec-9	101-M634	Mouse	WB, N	100µg
Anti-human Siglec-14	101-M630	Mouse	WB, N	100µg
Anti-mouse Siglec-F	103-M473	Rat	WB, N	100µg

**Anti-mouse SIGNR-4****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse SIGNR-4	103-M474	Rat	WB	100µg

**Anti-human SLAM****Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human SLAM	101-M635	Mouse	WB	100µg

**Slit2-N****Slit homolog 2 protein**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Mouse SF20	M10-092S	E. coli	15.8 kDa	2µg
Mouse SF20	M10-092	E. coli	15.8 kDa	10µg

**Anti-human SLPI***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human SLPI	101-M636	Mouse	WB	100µg

**Human SMCY/JARID1D**

← PP

Product	Catalog#	Source	MW	Size
Human SMCY/JARID1D	300-064	E. coli	33.8 kDa	25µg

*Polyclonal Antibodies – Protein-A Purified*

Product	Catalog#	Source	Application	Size
Anti-human SMCY/JARID1D	102-PA86S	Rabbit	WB	100µg
Anti-human SMCY/JARID1D	102-PA86	Rabbit	WB	200µg

**Anti-human SNCA***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human SNCA	101-M637	Mouse	WB	100µg

**Anti-Soggy-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Soggy-1	101-M638	Mouse	WB	100µg
Anti-mouse Soggy-1	103-M475	Rat	WB	100µg

**Sonic Hedgehog**

Product	Catalog#	Source	MW	Size
Human Sonic Hedgehog	100-153S	E. coli	20.0 kDa	5µg
Human Sonic Hedgehog	100-153	E. coli	20.0 kDa	25µg
Mouse Sonic Hedgehog	M10-057S	E. coli	20.0 kDa	5µg
Mouse Sonic Hedgehog	M10-057	E. coli	20.0 kDa	25µg

**Biological Activity:** Determined by its ability to induce alkaline phosphatase production by C3H/10T1/2 (CCL-226) cells.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Shh	103-M269	Rat	WB	100µg
Anti-mouse Shh (N-term.)	103-M476	Rat	WB, IHC(F), N	100µg

**Anti-human SOST***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human SOST	101-M639	Mouse	WB	100µg

**Sox2**

Product	Catalog#	Source	MW	Size
Human Sox2	100-358S	E. coli	34.3 kDa	5µg
Human Sox2	100-358	E. coli	34.3 kDa	25µg
Human Sox2-TAT	100-152S	E. coli	36.0 kDa	5µg
Human Sox2-TAT	100-152	E. coli	36.0 kDa	25µg

**Human SPARC/Osteonectin**

Product	Catalog#	Source	MW	Size
Human SPARC/Osteonectin	100-399S	CHO cells	53,7 kDa	10µg
Human SPARC/Osteonectin	100-399	CHO cells	53,7 kDa	50µg

**Anti-SPARC***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human SPARC	101-M640	Mouse	WB, IHC(P)	100µg
Anti-mouse SPARC	103-M271	Rat	Direct E, IHC	100µg

**Anti-human Spinesin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Spinesin	101-M641	Mouse	WB, N	100µg

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**Bovine SRY**

Product	Catalog#	Source	MW	Size
Bovine SRY	B30-001	E. coli	26.8 kDa	10µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-bovine SRY	105-PA02S	Rabbit	WB	100µg
Anti-bovine SRY	105-PA02	Rabbit	WB	200µg

**Anti-human ST2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human ST2	101-M642	Mouse	WB, N	100µg

**TACI****Transmembrane activator and CAML interactor**

Product	Catalog#	Source	MW	Size
Human TACI	100-285S	E. coli	17.8 kDa	5µg
Human TACI	100-285	E. coli	17.8 kDa	20µg

**Biological Activity:** Determined by its ability to block human BAFF induced T2B cell survival using a concentration range of 1-3 µg/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TACI	102-P94G	Goat	E, WB	100µg

**TAFA-2****Chemokine-like protein TAFA-2**

Product	Catalog#	Source	MW	Size
Human TAFA-2	100-359S	E. coli	11.2 kDa	5µg
Human TAFA-2	100-359	E. coli	11.2 kDa	20µg

**Biological Activity:** Data not available yet.

**TARC/CCL17****Thymus activation regulation chemokine**

Product	Catalog#	Source	MW	Size
Human TARC	100-101S	E. coli	8.0 kDa	5µg
Human TARC	100-101	E. coli	8.0 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TARC	102-P84	Rabbit	E, WB, N	100µg

**Anti-human TCCR****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TCCR	101-M643	Mouse	WB	100µg

**TECK/CCL25****Thymus-expressed chemokine**

Product	Catalog#	Source	MW	Size
Human TECK	100-102S	E. coli	14.2 kDa	5µg
Human TECK	100-102	E. coli	14.2 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration range of 1-10 ng/ml.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TECK	102-P85	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TECK	101-M84	Mouse	E	500µg

**Anti-human Tetraneectin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Tetraneectin	101-M715	Mouse	WB, E, N	100µg

TFF		Trefoil factors		
Product	Catalog#	Source	MW	Size
Human TFF1	100-288S	E. coli	8.2 kDa	5µg
Human TFF1	100-288	E. coli	8.2 kDa	20µg
Human TFF2	100-289S	E. coli	12.0 kDa	5µg
Human TFF2	100-289	E. coli	12.0 kDa	20µg
Human TFF3	100-290S	E. coli	13.2 kDa	5µg
Human TFF3	100-290	E. coli	13.2 kDa	20µg

**Biological Activity:** Determined by its ability to chemoattract human T cells using a concentration range of 1-10 ng/ml.

TFPI-2				
Product	Catalog#	Source	MW	Size
Human TFPI-2	PNB-0007	Nicotiana benth.	9.3 kDa	1mg

### Anti-human TFPI-2

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human TFPI-2	101-M644	Mouse	WB, IHC(F)	100µg

TGF-alpha		Transforming growth factor alpha		
Product	Catalog#	Source	MW	Size
Human TGF-alpha	100-103S	E. coli	5.5 kDa	20µg
Human TGF-alpha	100-103	E. coli	5.5 kDa	100µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by Balb/c 3T3 cells is < 0.2 ng/ml [ $\geq 5 \times 10^6$  units/mg].

#### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human TGF-alpha	102-P86	Rabbit	E, WB, N	100µg

TGF-beta1		Transforming growth factor beta1		
Product	Catalog#	Source	MW	Size
Human TGF-beta1	300-023S	CHO cells	25.0 kDa	2µg
Human TGF-beta1	300-023	CHO cells	25.0 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> was determined by TGF-beta1 ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is < 0.05 ng/ml [ $2 \times 10^7$  units/mg].

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human TGF-beta1	101-M85	Mouse	E	500µg

TGF-beta2		Transforming growth factor beta2		
Product	Catalog#	Source	MW	Size
Human TGF-beta2	100-105S	Insect cells	25.0 kDa	2µg
Human TGF-beta2	100-105	Insect cells	25.0 kDa	10µg
Human TGF-beta2	PNb-003	Nictiana benth.	27.08 kDa	5µg
Human TGF-beta2	PNb-004	Nictiana benth.	27.08 kDa	10µg
Human TGF-beta2 (inactive)	PNb-004-I	Nictiana benth.	27.08 kDa	5µg

**Biological Activity:** Determined by its ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. The ED<sub>50</sub> was found to be < 0.2 ng/ml [ $> 5 \times 10^6$  units/mg].

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human TGF-beta2	101-M717	Mouse	WB, IHC (P)	100µg

TGF-beta3		Transforming growth factor beta3		
Product	Catalog#	Source	MW	Size
Human TGF-beta3	100-107	E. coli	25.0 kDa	10µg
Human TGF-beta3 (inactive)	PNb-006-I	Nictiana benth.	27.08 kDa	5µg

**Biological Activity:** The ED<sub>50</sub> was determined by TGF-beta3 ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is < 0.05 ng/ml [ $2 \times 10^7$  units/mg].

### Anti-TGFR-1 (ALK-1)

#### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human TGFR-1 (ALK-1)	101-M95	Mouse	E, WB	100µg
Anti-mouse TGFR-1 (ALK-1)	103-M95	Rat	E, WB	100µg

**Anti-TGFR-1 (ALK-5)***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human TGFR-1 (ALK-5)	101-M96	Mouse	E, WB	100µg
Anti-mouse TGFR-1 (ALK-5)	103-M96	Rat	E, WB	100µg

**Anti-TGF beta receptor***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human TGF beta RII	101-M178	Mouse	WB	100µg
Anti-mouse TGF beta RII	103-M273	Rat	WB	100µg
Anti-human TGF beta RIII	101-M179	Mouse	WB	100µg

**Human sThrombomodulin**

Product	Catalog#	Source	MW	Size
Human sThrombomodulin	S01-062S	HEK923	55.0 kDa	2µg
Human sThrombomodulin	S01-062	HEK923	55.0 kDa	10µg

**Anti-human Thrombospondin-2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-hu Thrombospondin-2	101-M646	Mouse	WB	100µg

**Anti-human Thrombopoietin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-hu Thrombopoietin	101-M647	Mouse	WB	100µg

**Anti-human Thrombopoietin R***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-hu Thrombopoietin R	101-M645	Mouse	WB, FC	100µg

**Anti-human Thymopoietin***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human Thymopoietin	101-M648	Mouse	WB	100µg

**Thymosin-beta4****Seraspenide**

Product	Catalog#	Source	MW	Size
Human Thymosin-beta4	100-428S	E. coli	5.2 kDa	20µg
Human Thymosin-beta4	100-428	E. coli	5.2 kDa	100µg

**Biological Activity:** Pretreatment of primary lung fibroblasts with recombinant Thymosin-β4, using a concentration of 0.5 - 10 µg/ml, produces a protective effect against hydrogen peroxide induced cell death.

**sTIE-1****soluble tyrosine-protein kinase receptor Tie-1**

Product	Catalog#	Source	MW	Size
Human sTIE-1-Fc	SFC-011	Insect cells	250 kDa	20µg
Human sTIE-1-Fc	SFC-012	Insect cells	250 kDa	100µg
Mouse sTIE-1	S01-M41	Insect cells	95 kDa	10µg
Mouse sTIE-1	S01-M42	Insect cells	95 kDa	50µg
Mouse sTIE-1-Fc	SFC-031	CHO cells	250 kDa	20µg
Mouse sTIE-1-Fc	SFC-032	CHO cells	250 kDa	100µg

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse TIE-1	103-PA110S	Rabbit	WB	100µg
Anti-mouse TIE-1	103-PA110	Rabbit	WB	200µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human TIE-1 (#8C9)	101-M46	Mouse	E, WB	100µg
Anti-human TIE-1 (#12D9)	101-M47	Mouse	WB, IHC	100µg
Anti-human TIE-1 (#6F12)	101-M48	Mouse	E, WB	100µg

**Biotin-conjugated**

Anti-human TIE-1 (#6F12)	101-MBi48	Mouse	E, WB	50µg
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**sTIE-2** soluble tyrosine-protein kinase receptor TIE-2 

Synonyms: Tek


Product	Catalog#	Source	MW	Size
Human sTIE-2	S01-043	Insect cells	95 kDa	10µg
Human sTIE-2	S01-044	Insect cells	95 kDa	50µg
Human sTIE-2-Fc	SFC-013	Insect cells	250 kDa	20µg
Human sTIE-2-Fc	SFC-014	Insect cells	250 kDa	100µg
Mouse sTIE-2	S01-M43	Insect cells	95 kDa	10µg
Mouse sTIE-2	S01-M44	Insect cells	95 kDa	50µg
Mouse sTIE-2-Fc	SFC-033	CHO cells	250 kDa	20µg
Mouse sTIE-2-Fc	SFC-034	CHO cells	250 kDa	100µg

**Anti-TIE-2** tyrosine-protein kinase receptor TIE-2 
**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-human TIE-2	102-PA111S	Rabbit	WB	100µg
Anti-human TIE-2	102PA111	Rabbit	WB	200µg
Anti-mouse TIE-2	103-PA111S	Rabbit	WB	100µg
Anti-mouse TIE-2	103-PA111	Rabbit	WB	200µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TIE-2 (#tek2)	101-M50	Mouse	E, WB, FC, IP, IHC	100µg
Anti-human TIE-2 (#tek9)	101-M52	Mouse	E, WB, FC, IHC	100µg
Anti-human TIE-2 (#tek16)	101-M54	Mouse	E, WB, FC, IP, IHC	100µg
Anti-human TIE-2 (#21G7)	101-M55	Mouse	WB	100µg
Anti-mouse TIE-2	103-M55	Rat	WB, FC, IHC	200µg
Anti-mouse TIE-2, agonistic	mT1002r-m	Rat	WB, activation	200µg
<b>Biotin-conjugated</b>				
Anti-human TIE-2 (#tek2)	101-MBi50	Mouse	E, WB, FC, IP	50µg
Anti-human TIE-2 (#tek9)	101-MBi52	Mouse	E, WB, FC, IP	50µg
Anti-human TIE-2 (#tek16)	101-MBi54	Mouse	E, WB, FC, IP	50µg
<b>FITC-conjugated</b>				
Anti-human TIE-2 (#tek16)	101-M54-FITC	Mouse	FC	25µg
Anti-human TIE-2 (#tek16)	101-M54-FITC	Mouse	FC	50µg
<b>PE-conjugated</b>				
Anti-human TIE-2 (#tek16)	101-M54-PE	Mouse	FC	25µg
Anti-human TIE-2 (#tek16)	101-M54-PE	Mouse	FC	50µg

**ELISA human TIE-2/tek** Conventional ELISA 

Analyte	Catalog#	Tests	Standard Range	Sensitivity
Human TIE-2/tek	BMS2042	96/40*	10-0.16ng/ml	0.06ng/ml

**Description:** The TIE-2 ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total human TIE-2 in cell culture supernatants, human serum, plasma, or other body fluids. The TIE-2 ELISA is for research use only. Not for use in diagnostic or therapeutic procedures.  
For detailed information see manual on our web site [www.reliatech.de](http://www.reliatech.de)

**TIGAR** TP53-induced glycolysis and apoptosis regulator

Product	Catalog#	Source	MW	Size
Human TIGAR	100-429S	E. coli	29.9 kDa	5µg
Human TIGAR	100-429	E. coli	29.9 kDa	25µg
Human TIGAR-TAT*	100-138S	E. coli	36 kDa	5µg
Human TIGAR-TAT*	100-138	E. coli	36 kDa	25µg

**Biological Activity:** \*Pretreatment with TIGAR-TAT for 4 hrs, using a concentration range 0.1-5.0 µg/ml, protects U2OS cells from apoptosis induced by hydrogen peroxide.

**Anti-TIM-1/ -2/ -3**
**Monoclonal Antibodies**


Product	Catalog#	Source	Application	Size
Anti-human TIM-1	101-M649	Mouse	WB, IHC(P)	100µg
Anti-mouse TIM-1	103-M274	Rat	WB	100µg
Anti-mouse TIM-2	103-M275	Rat	WB	100µg
Anti-mouse TIM-3	103-M276	Rat	WB	100µg

**TIMP** Tissue inhibitor of metalloproteinases

Product	Catalog#	Source	MW	Size
Human TIMP-1	100-430S	E. coli	20.6 kDa	2µg
Human TIMP-1	100-430	E. coli	20.6 kDa	10µg
Human TIMP-2	100-431S	E. coli	21.8 kDa	2µg
Human TIMP-2	100-431	E. coli	21.8 kDa	10µg

**Biological Activity:** TIMP1/-2 activity was measured by its ability to inhibit human MMP-1 induced hydrolysis of a chromogenic peptide substrate at room temperature. Half maximal inhibition was obtained at a TIMP-1/-2 concentration of approximately 0.5 µg/ml, when using an MMP-1 concentration of 1.6 µg/ml.

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**Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TIMP-1	102-P252	Rabbit	E, WB	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TIMP-1	101-M123	Mouse	WB, IHC	100µg
Anti-mouse TIMP-1	103-M277	Rat	WB	100µg
Anti-human TIMP-2	101-M124	Mouse	WB	100µg
Anti-human TIMP-3	101-M125	Mouse	WB, IHC	100µg
Anti-human TIMP-4	101-M126	Mouse	WB, IHC	100µg

**TL-1A**

Synonyms: TNFSF15, VEGI

Product	Catalog#	Source	MW	Size
Human TL-1A	100-294S	E. coli	22.0 kDa	5µg
Human TL-1A	100-294	E. coli	22.0 kDa	20µg

**Biological Activity:** Determined by its ability to stimulate IFN-γ production by human PBMC using a concentration range of 10-100 ng/ml. Note: Results may vary with PBMC donors.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TL-1A	102-P253	Rabbit	E, WB	100µg

**Anti-mouse TLR2 Toll-like receptor-2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse TLR2	103-M278	Rat	WB	100µg

**TLR-3 Toll-like receptor-3**

Product	Catalog#	Source	MW	Size
Human TLR-3	100-360S	293 cells	77.0 kDa	5µg
Human TLR-3	100-360	293 cells	77.0 kDa	25µg

**Biological Activity:** Determined by its ability to inhibit IL-8 secretion induced by Poly I:C in the TLR3 receptor-expressing HEK293 cells (HEK293 TLR3r). The ED<sub>50</sub> for this effect is ≤ 30 µg/ml in the presence of 100 µg/ml of Poly I:C.

**Anti-human TMEFF1****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TMEFF1	101-M650	Mouse	WB	100µg

**TNF-alpha Tumor necrosis factor alpha**

Synonyms: TNFSF2, cachectin, differentiation-inducing factor (DIF)

Product	Catalog#	Source	MW	Size
Human TNF-alpha	300-027	E. coli	17.4 kDa	10µg
Human TNF-alpha	300-028	E. coli	17.4 kDa	50µg
Mouse TNF-alpha	M10-041S	E. coli	17.3 kDa	5µg
Mouse TNF-alpha	M10-041	E. coli	17.3 kDa	20µg
Rat TNF-alpha	R20-013S	E. coli	17.4 kDa	5µg
Rat TNF-alpha	R20-013	E. coli	17.4 kDa	20µg
Porcine TNF-alpha	P40-001	E. coli	17.3 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D is <0.05 ng/ml [ $>2 \times 10^7$  units/mg] (human), <0.1 to 0,05 ng/ml [ $>1 \times 10^7$  to  $2 \times 10^7$  units/mg] (mouse) and <0.05 ng/ml [ $>5 \times 10^7$  units/mg] (rat). The ED<sub>50</sub> as determined by the cytotoxicity of porcine PK15 cells was found to be <0.008ng/ml.

**Polyclonal Antibodies – Protein-A Purified**

Product	Catalog#	Source	Application	Size
Anti-mouse TNF-alpha	103-PA09S	Rabbit	WB	100µg
Anti-mouse TNF-alpha	103PA09	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TNF-alpha	102-P87	Rabbit	E, WB, N	100µg
Anti-human TNF-alpha	102-P87G	Goat	E, WB	100µg
Anti-mouse TNF-alpha	103-P35	Rabbit	E, WB, N	100µg
Anti-mouse TNF-alpha	103-P35G	Goat	E, WB, N	100µg
Anti-rat TNF-alpha	104-P11	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TNF-alpha	101-M17	Mouse	E, N	500µg

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## TNF-beta Tumor necrosis factor beta

Synonyms: TNFSF1, Lymphotoxin alpha (LT-alpha)

Product	Catalog#	Source	MW	Size
Human TNF-beta	100-108S	E. coli	18.6 kDa	5µg
Human TNF-beta	100-108	E. coli	18.6 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the cytotoxicity of mouse L929 cells in the presence of Actinomycin-D is < 0.05 ng/ml [ $> 2 \times 10^7$  units/mg].

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human TNF-beta	102-P88	Rabbit	E, WB, N	100µg

## sTNF receptor type I soluble TNF receptor type I

Product	Catalog#	Source	MW	Size
Human sTNFR type I	100-118S	E. coli	18.3 kDa	5µg
Human sTNFR type I	100-118	E. coli	18.3 kDa	20µg

**Biological Activity:** Determined by its inhibitory effect of the TNF-alpha mediated cytotoxicity in mouse L-929 cells. The ED<sub>50</sub> for this effect in the presence of 0.25 ng/ml of recombinant human TNF-alpha, is 0.05 µg/ml.

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human sTNFR type I	102-P95	Rabbit	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse TNFR type I	103-M132	A. Hamster	WB, IP, FC	100µg

## sTNF receptor type II soluble TNF receptor type II

Product	Catalog#	Source	MW	Size
Human sTNFR type II	100-119S	E. coli	18.3 kDa	5µg
Human sTNFR type II	100-119	E. coli	18.3 kDa	20µg

**Biological Activity:** Determined by its inhibitory effect of the TNF-alpha mediated cytotoxicity in mouse L-929 cells. The ED<sub>50</sub> for this effect in the presence of 0.25 ng/ml of recombinant human TNF-alpha, is 0.125 µg/ml.

### Polyclonal Antibodies – Antigen Affinity Purified

Product	Catalog#	Source	Application	Size
Anti-human sTNFR type II	102-P96	Rabbit	E, WB, N	100µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-mouse TNFR typell	103-M134	A. Hamster	WB, IP, FC	100µg

## Anti-TNFRSF

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human TNFRSF1A	101-M661	Mouse	WB, N	100µg
Anti-human TNFRSF1B	101-M662	Mouse	WB, IHC(F)	100µg
Anti-human TNFRSF3	101-M665	Mouse	WB, FC	100µg
Anti-mouse TNFRSF3	103-M485	Rat	WB	100µg
Anti-human TNFRSF6B	101-M666	Mouse	WB, N	100µg
Anti-human TNFRSF7	101-M667	Mouse	WB, FC, N	100µg
Anti-mouse TNFRSF7	103-M486	Rat	WB	100µg
Anti-human TNFRSF8	101-M668	Mouse	WB, FC	100µg
Anti-mouse TNFRSF8	103-M487	Rat	WB	100µg
Anti-human TNFRSF9	101-M669	Mouse	WB	100µg
Anti-mouse TNFRSF9	103-M488	Rat	WB	100µg
Anti-human TNFRSF10A	101-M651	Mouse	FC	100µg
Anti-human TNFRSF10B	101-M652	Mouse	Ind. of Apoptosis	100µg
Anti-mouse TNFRSF10	103-M489	Rat	WB	100µg
Anti-mouse TNFRSF10B	103-M478	Rat	WB, IHC(F)	100µg
Anti-human TNFRSF10C	101-M653	Mouse	WB, IHC(P)	100µg
Anti-human TNFRSF10D	101-M654	Mouse	WB, FC, N	100µg
Anti-mouse TNFRSF11	103-M490	Rat	WB	100µg
Anti-mouse TNFRSF11A	103-M479	Rat	WB	100µg
Anti-human TNFRSF11B	101-M655	Mouse	WB, N	100µg
Anti-mouse TNFRSF11B	103-M480	Rat	WB	100µg
Anti-human TNFRSF13B	101-M656	Mouse	WB, IHC(F), N	100µg
Anti-mouse TNFRSF13B (TACI)	103-M481	Rat	WB	100µg
Anti-mouse TNFRSF13B (BAFF)	103-M491	Rat	WB	100µg
Anti-human TNFRSF14	101-M657	Mouse	WB, IHC(P)	100µg
Anti-human TNFRSF17	101-M658	Rat	WB, Blocking	100µg
Anti-mouse TNFRSF17	103-M482	Rat	WB, N	100µg
Anti-human TNFRSF18	101-M659	Mouse	WB, FC, N	100µg
Anti-mouse TNFRSF18	103-M492	Rat	WB, N	100µg

Anti-human TNFRSF19L	101-M660	Mouse	FC	100µg
Anti-human TNFRSF21	101-M663	Mouse	WB	100µg
Anti-human TNFRSF25	101-M664	Mouse	WB	100µg

**Anti-TNFSF****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TNFSF1A	101-M678	Mouse	WB, IHC(F), N	100µg
Anti-mouse TNFSF1A	103-M493	Rat	WB	100µg
Anti-human TNFSF1B	101-M679	Mouse	WB, IHC(F), N	100µg
Anti-mouse TNFSF1B	103-M494	Rat	WB	100µg
Anti-human TNFSF3	101-M680	Mouse	WB	100µg
Anti-human TNFSF4	101-M681	Mouse	FC, IHC(F), N	100µg
Anti-human TNFSF5	101-M682	Mouse	WB, IHC(P)	100µg
Anti-human TNFSF6	101-M683	Mouse	WB	100µg
Anti-mouse TNFSF6	103-M495	Rat	WB	100µg
Anti-human TNFSF8	101-M684	Mouse	WB	100µg
Anti-mouse TNFSF8	103-M496	Rat	WB	100µg
Anti-human TNFSF10	101-M671	Mouse	WB, IHC(P), N	100µg
Anti-human TNFSF11	101-M672	Mouse	WB, IHC(P), N	100µg
Anti-human TNFSF11A	101-M670	Mouse	WB, IHC(P)	100µg
Anti-human TNFSF12	101-M673	Mouse	WB	100µg
Anti-human TNFSF13	101-M674	Mouse	WB	100µg
Anti-human TNFSF13B	101-M675	Mouse	WB, FC	100µg
Anti-human TNFSF14	101-M676	Mouse	FC	100µg
Anti-human TNFSF18	101-M677	Mouse	FC, N	100µg

**TPO****Thrombopoietin**

Synonyms: Megakaryocyte colony-stimulating factor, c-MPL ligand, MGDF

Product	Catalog#	Source	MW	Size
Human TPO	100-109S	E. coli	18.6 kDa	2µg
Human TPO	100-109	E. coli	18.6 kDa	10µg
Human TPO	100-109-SC	E. coli	18.6 kDa	50µg
Mouse TPO	M10-087S	E. coli	18.7 kDa	2µg
Mouse TPO	M10-087	E. coli	18.7 kDa	10µg
Rat TPO	R20-058	E. coli	18,7 kDa	2µg
Rat TPO	R20-058	E. coli	18,7 kDa	10µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human MO7e cells was found to be < 1.0 ng/ml [ $> 1 \times 10^6$  units/mg] (human) and < 1.0 ng/ml [ $> 1 \times 10^6$  units/mg] (mouse).

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human TPO	102-P89G	Goat	E, WB, N	100µg

**TRAIL**

Product	Catalog#	Source	MW	Size
Mouse TRAIL	M10-128S	E. coli	20.0 kDa	10µg
Mouse TRAIL	M10-128	E. coli	20.0 kDa	50µg

**Biological Activity:** Determined by the dose-dependent stimulation of MIP-2 production by mouse spleen cells using a concentration range of 10-100 ng/ml.

**sTRAIL/Apo2L****soluble TNF-related apoptosis inducing ligand**

Product	Catalog#	Source	MW	Size
Human sTRAIL/Apo2L	100-301S	E. coli	19.6 kDa	10µg
Human sTRAIL/Apo2L	100-301	E. coli	19.6 kDa	50µg

**Biological Activity:** Determined by its inhibitory effect of IL-8 production in human PBMC by human sTRAIL/Apo2L. 95% inhibition (100 ng/ml of sTRAIL/Apo2L) was reached using a concentration of 100 ng/ml of sTRAIL Receptor-1.

**Polyclonal Antibodies – Antigen Affinity Purified**

Product	Catalog#	Source	Application	Size
Anti-human sTRAIL/Apo2L	102-P97	Rabbit	E, WB, N	100µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human sTRAIL/Apo2L	101-M86	Mouse	E	500µg

**sTRAIL receptor-1/DR4****soluble TRAIL receptor-1**

Synonyms: TNFRSF10A, Apo2, DR4

Product	Catalog#	Source	MW	Size
Human sTRAILR-1/DR4	S01-035S	E. coli	22.7 kDa	10µg
Human sTRAILR-1/DR4	S01-035	E. coli	22.7 kDa	50µg

**Biological Activity:** Determined by its inhibitory effect of IL-8 production in human PBMC by human sTRAIL/Apo2L. 95% inhibition (100 ng/ml of sTRAIL/Apo2L) was reached using a concentration of 100 ng/ml of sTRAIL receptor-1.

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**sTRAIL receptor-2/DR5 soluble TRAIL receptor-2**

Synonyms: TNFRSF10B, DR5, KILLER, TRICK2A, TRICK2B

Product	Catalog#	Source	MW	Size
Human sTRAILR-2/DR5	S01-036S	E. coli	14.9 kDa	10µg
Human sTRAILR-2/DR5	S01-036	E. coli	14.9 kDa	50µg

**Biological Activity:** Determined by its inhibitory effect of IL-8 production in human PBMC by human sTRAIL/Apo2L. 95% inhibition (100 ng/ml of sTRAIL/Apo2L) was reached using a concentration of 100 ng/ml of sTRAIL receptor-1.

**Anti-human Transferrin Receptor****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Transferrin R	101-M685	Mouse	WB, FC	100µg

**Anti-human Trappin****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Trappin	101-M686	Mouse	WB	100µg

**Anti-TREM****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TREM-1	101-M687	Mouse	FC, R activation	100µg
Anti-mouse TREM-1	103-M279	Rat	WB, IHC	100µg
Anti-mouse TREM-2b	103-M280	Rat	WB	100µg

**Anti-Trk****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human TrkA	101-M688	Mouse	WB	100µg
Anti-human TrkB	101-M689	Mouse	WB, IHC(P)	100µg
Anti-mouse TrkB	103-M196	Rat	WB, IHC	100µg
Anti-human TrkC	101-M690	Mouse	WB, IHC(F)	100µg
Anti-mouse TrkC	103-M198	Rat	WB	100µg

**sThrombomodulin soluble Thrombomodulin**

Synonyms: CD141, BDCA-3, THBD, TM

Product	Catalog#	Source	MW	Size
Human sThrombomodulin	S01-062	Hek 293		10µg

**Biological Activity:** Measured by its ability to activate protein C induced cleavage of the chromogenic substrate, BOC-Asp-Pro Arg-AMC in the presence of thrombin. The specific activity is greater than 500 pmoles/min/ug.

**Anti-Trop-2****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human Trop-2	101-M691	Mouse	WB, FC	100µg
Anti-mouse Trop-2	103-M497	Rat	WB	100µg

**Anti-Tryptase****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse Tryptase beta1	103-M498	Rat	WB	100µg
Anti-mouse Tryptase epsilon	103-M499	Rat	WB	100µg

**TSG Twisted Gastrulation Protein**

Product	Catalog#	Source	MW	Size
Human TSG	100-361S	E. coli	22.2 kDa	10µg
Human TSG	100-361	E. coli	22.2 kDa	50µg

**Biological Activity:** Determined by its ability to neutralize BMP-6 induced alkaline phosphatase production by ATDC chondrogenic cells. The expected ED<sub>50</sub> for this effect is < 2.0 µg/ml of TSG.

**Anti-mouse TSG (Twisted Gastrulation)****Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-mouse TSG	103-M281	Rat	WB, IHC	100µg



<b>TSLP</b>		<b>Thymic stromal lymphopoietin protein</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human TSLP	100-304S	E. coli	15.1 kDa	2µg
Human TSLP	100-304	E. coli	15.1 kDa	10µg
<b>Biological Activity:</b> Data not available yet.				
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human TSLP	102-P254	Rabbit	E, WB	100µg
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse TSLP	103-M282	Rat	WB	100µg
<b>Anti-human TSLP Receptor</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human TSLP R	101-M692	Mouse	WB	100µg
<b>Anti-mouse TSP50</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-mouse TSP50	103-M283	Rat	WB	100µg
<b>TWEAK</b>		<b>TNF-related weak inducer of apoptosis</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human TWEAK	100-111S	E. coli	17.0 kDa	5µg
Human TWEAK	100-111	E. coli	17.0 kDa	25µg
<b>Biological Activity:</b> The ED <sub>50</sub> as determined by the dose-dependent stimulation of IL-8 production by human PBMC is less than 10 ng/ml.				
<b>Polyclonal Antibodies – Antigen Affinity Purified</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human TWEAK	102-P90G	Goat	E, WB	100µg
<b>sTWEAK Receptor</b>		<b>soluble TNF-related weak inducer of apoptosis receptor</b>		
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>
Human sTWEAK Receptor	S01-037S	E. coli	5.6 kDa	5µg
Human sTWEAK Receptor	S01-037	E. coli	5.6 kDa	25µg
<b>Biological Activity:</b> The ED <sub>50</sub> as determined by the dose-dependent stimulation of IL-8 production by human PBMC is less than 10 ng/ml.				
<b>Anti-human ULBP</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human ULBP-1	101-M693	Mouse	FC, N	100µg
Anti-human ULBP-2	101-M694	Mouse	FC, N	100µg
Anti-human ULBP-3	101-M695	Mouse	WB	100µg
<b>Anti-human UNC5H3</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human UNC5H3	101-M696	Mouse	WB, IHC(P)	100µg
<b>Anti-human uPA</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human uPA	101-M697	Mouse	WB	100µg
<b>Anti-uPAR</b>				
<b>Monoclonal Antibodies</b>				
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human uPAR	101-M698	Mouse	WB, FC, N	100µg
Anti-mouse uPAR	103-M284	Rat	WB	100µg

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## Uterogloblin Urinary protein 1

Product	Catalog#	Source	MW	Size
Human Uterogloblin	100-432S	E. coli	8.0 kDa	10µg
Human Uterogloblin	100-432	E. coli	8.0 kDa	50µg

## VAP-1

Product	Catalog#	Source	MW	Size
Human VAP-1	100-141S	CHO cells		2µg
Human VAP-1	100-141	CHO cells		10µg

**Biological Activity:** Test in progress.

## Anti-human Vasa

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Vasa	101-M699	Mouse	WB	100µg

## Anti-human Vasorin

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human Vasorin	101-M700	Mouse	WB	100µg

## Vaspin

Product	Catalog#	Source	MW	Size
Human Vaspin	100-362S	E. coli	22.2 kDa	5µg
Human Vaspin	100-362	E. coli	22.2 kDa	25µg

### Polyclonal Antibodies - Protein-A purified

Product	Catalog#	Source	Application	Size
Anti-human Vaspin	102-P255	Rabbit	E, WB	100µg

## VCAM-1

### Vascular cell adhesion molecule-1

Product	Catalog#	Source	MW	Size
Human VCAM-1	100-380S	Hek 293	94.12 kDa	10µg
Human VCAM-1	100-380	Hek 293	94.12 kDa	50µg

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human VCAM-1	101-M98	Mouse	E, WB	100µg
Anti-mouse VCAM-1	103-M98	Rat	E, WB	200µg

## Anti-human VE-Cadherin

### Monoclonal Antibodies

Product	Catalog#	Source	Application	Size
Anti-human VE-Cadherin	101-M99	Mouse	E, WB	100µg

## Vascular endothelial growth factor family

**Synonyms:** VPF (Vascular Permeability Factor), VEGF-A, folliculostellate cell-derived growth factor, glioma-derived endothelial cell mitogen

## Mouse VEGF<sub>120</sub> Vascular endothelial growth factor-120 ☞ PP

Product	Catalog#	Source	MW	Size
Mouse VEGF120	M30-031S	E. coli	28.0 kDa	2µg
Mouse VEGF120	M30-031	E. coli	28.0 kDa	5µg
Mouse VEGF120	M30-032	E. coli	28.0 kDa	20µg

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-20 ng/ml.

## Rat VEGF<sub>120</sub> Vascular endothelial growth factor-120 ☞ PP

Product	Catalog#	Source	MW	Size
Rat VEGF120	R20-063S	E. coli	28.0 kDa	2µg
Rat VEGF120	R20-063	E. coli	28.0 kDa	5µg
Rat VEGF120	R20-064	E. coli	28.0 kDa	20µg

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Human VEGF<sub>121</sub></b>		<b>Vascular endothelial growth factor-121</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF121	300-031S	Insect cells	34.0 kDa	2µg	
Human VEGF121	300-031	Insect cells	34.0 kDa	5µg	
Human VEGF121	300-032	Insect cells	34.0 kDa	20µg	
Human VEGF121	300-071S	E. coli	28.0 kDa	2µg	
Human VEGF121	300-071	E. coli	28.0 kDa	5µg	
Human VEGF121	300-072	E. coli	28.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Mouse VEGF<sub>144</sub></b>		<b>Vascular endothelial growth factor-144</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF144	M30-033S	E. coli	34 kDa	2µg	
Human VEGF144	M30-033	E. coli	34 kDa	5µg	
Human VEGF144	M30-034	E. coli	34 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-20 ng/ml.

<b>Human VEGF<sub>145</sub></b>		<b>Vascular endothelial growth factor-145</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF145	300-033S-E	E. coli	34 kDa	2µg	
Human VEGF145	300-033-E	E. coli	34 kDa	5µg	
Human VEGF145	300-034-E	E. coli	34 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Mouse VEGF<sub>164</sub></b>		<b>Vascular endothelial growth factor-164</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Mouse VEGF164	M30-001S	Insect cells	48.0 kDa	2µg	
Mouse VEGF164	M30-001	Insect cells	48.0 kDa	5µg	
Mouse VEGF164	M30-002	Insect cells	48.0 kDa	20µg	
Mouse VEGF164	M30-003S	E. coli	38.0 kDa	2µg	
Mouse VEGF164	M30-003	E. coli	38.0 kDa	5µg	
Mouse VEGF164	M30-004	E. coli	38.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 1-5 ng/ml.

<b>Rat VEGF<sub>164</sub></b>		<b>Vascular endothelial growth factor-164</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Rat VEGF164	R20-067S	E. coli	38.0 kDa	2µg	
Rat VEGF164	R20-067	E. coli	38.0 kDa	5µg	
Rat VEGF164	R20-064	E. coli	38.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Human VEGF<sub>165</sub></b>		<b>Vascular endothelial growth factor-165</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF165	300-035S	Insect cells	45.0 kDa	2µg	
Human VEGF165	300-035	Insect cells	45.0 kDa	5µg	
Human VEGF165	300-036	Insect cells	45.0 kDa	20µg	
Human VEGF165	300-075S	E. coli	36.0 kDa	2µg	
Human VEGF165	300-075	E. coli	36.0 kDa	5µg	
Human VEGF165	300-076	E. coli	38.0 kDa	20µg	

**Biological Activity:** The ED<sub>50</sub> for stimulation of proliferation by human umbilical vein endothelial cells for VEGF<sub>165</sub> has been determined to be in the range of 1-4 ng/ml.

### Anti-human VEGF165b

#### Monoclonal Antibodies

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>
Anti-human VEGF165b	101-M180	Mouse	WB	100µg

<b>Mouse VEGF<sub>188</sub></b>		<b>Vascular endothelial growth factor-188</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Mouse VEGF188	M30-094S	E. coli	42.0 kDa	2µg	
Mouse VEGF188	M30-094	E. coli	42.0 kDa	5µg	
Mouse VEGF188	M30-095	E. coli	42.0 kDa	20µg	

**Biological Activity:** The ED<sub>50</sub> for stimulation of cell proliferation by human umbilical vein endothelial cells for VEGF<sub>188</sub> has been determined to be in the range of 2-20 ng/ml.

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<b>Rat VEGF<sub>188</sub></b>		<b>Vascular endothelial growth factor-188</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Rat VEGF188	R20-069S	E. coli	42.0 kDa	2µg	
Rat VEGF188	R20-069	E. coli	42.0 kDa	5µg	
Rat VEGF188	R20-070	E. coli	42.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Human VEGF<sub>189</sub></b>		<b>Vascular endothelial growth factor-189</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF189	300-094S	E. coli	42.0 kDa	2µg	
Human VEGF189	300-094	E. coli	42.0 kDa	5µg	
Human VEGF189	300-095	E. coli	42.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 2-10 ng/ml.

<b>Human VEGF<sub>206</sub></b>		<b>Vascular endothelial growth factor-206</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF206	300-098S	E. coli	47.0 kDa	2µg	
Human VEGF206	300-098	E. coli	47.0 kDa	5µg	
Human VEGF206	300-099	E. coli	47.0 kDa	20µg	

**Biological Activity:** Measured by cell proliferation of human umbilical vein endothelial cells (HUVEC) in the range of 5-15 ng/ml.

<b>ELISA Human VEGF-A</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Analyte</b>	<b>Catalog#</b>	<b>Tests</b>	<b>Standard Range</b>	<b>Sensitivity</b>	
Human VEGF-A	BMS277	96/40*	2000-31.25 pg/ml	13.5 pg/ml	

**Isoforms:** VEGF<sub>121</sub>, VEGF<sub>145</sub>, VEGF<sub>165</sub>, VEGF<sub>189</sub>, VEGF<sub>206</sub>

**Description:** The VEGF-A ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total human Vascular Endothelial Growth Factor A (VEGF-A) in cell culture supernatants, human serum, plasma, or other body fluids. The VEGF-A ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see the manual and the short mini-review on our web site [www.reliatech.de](http://www.reliatech.de).

\* No. of microwells/samples in duplicate

<b>ELISA Mouse VEGF-A</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Analyte</b>	<b>Catalog#</b>	<b>Tests</b>	<b>Standard Range</b>	<b>Sensitivity</b>	
Mouse VEGF-A	BMS619	96/40*	2000-31.25 pg/ml	4.5 pg/ml	

**Description:** The VEGF-A ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total mouse Vascular Endothelial Growth Factor A (VEGF-A) in cell culture supernatants, human serum, plasma, or other body fluids. The VEGF-A ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site [www.reliatech.de](http://www.reliatech.de).

\* No. of microwells/samples in duplicate

<b>Anti-human VEGF-A</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-A#	102-PA02S	Rabbit	E, WB, IHC	100µg	
Anti-human VEGF-A#	102-PA02	Rabbit	E, WB, IHC	200µg	
Anti-human VEGF- Apan*	102-PA03S	Rabbit	E, WB, IHC	100µg	
Anti-human VEGF- Apan*	102-PA03	Rabbit	E, WB, IHC	200µg	
Anti-human VEGF-A	102-P91	Rabbit	E, WB, N	100µg	
Anti-human VEGF-A	102-P91G	Goat	E, WB, N	100µg	
Anti-mouse VEGF-A	103-PA03S	Rabbit	E, WB	100µg	
Anti-mouse VEGF-A	103-PA03	Rabbit	E, WB	200µg	
Anti-mouse VEGF-A	103-PA03AG	Rabbit	E, WB	50µg	
Anti-mouse VEGF-A	103-P36	Rabbit	E, WB, N	100µg	
Anti-rat VEGF-A	104-P15	Rabbit	E, WB	100µg	

\* N-terminal Peptide; # recombinant human VEGF<sub>165</sub>

#### **Monoclonal Antibodies**

<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-A (#3C5)	101-M56	Mouse	E, WB	100µg	
Anti-human VEGF-A (#2B86)	101-M57	Mouse	E, WB, IHC	100µg	
Anti-human VEGF-A (#7G7)	101-M58	Mouse	E, WB	100µg	
<b>Biotin-conjugated</b>					
Anti-human VEGF-A (#7G7)	101-MBi58	Mouse	E, WB	100µg	
Anti-human VEGF-A (#6D3)	101-M59	Mouse	E, WB, N	200µg	
Anti-human VEGF-A (#339/H2)	101-M60	Mouse	E, WB	100µg	
<b>Biotin-conjugated</b>					
Anti-human VEGF-A (#339/H2)	101-MBi60	Mouse	E, WB	50µg	
Anti-mouse VEGF-A (#2G02)	103-M57	Rat	E, WB	100µg	
Anti-human VEGF-A	mV1005m-h	Mouse	Blocking	200µg	
Anti-mouse VEGF-A	mV1007m-m	Mouse	Blocking	200µg	

<b>Human VEGF-B167</b>		<b>Vascular endothelial growth factor-B167</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF-B	100-373S	E. coli	38kDa	5µg	
Human VEGF-B	100-373	E. coli	38kDa	20µg	
<b>Polyclonal Antibodies - Protein-A purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-B	102-PA72S	Rabbit	WB	100µg	
Anti-human VEGF-B	102-PA72	Rabbit	WB	200µg	
<b>Polyclonal Antibodies – Antigen-Affinity purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-B	102-PA72AG	Rabbit	WB	50µg	
<b>Monoclonal Antibodies - Protein-G purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-B	101-M62	Mouse	E, WB	100µg	
Anti-mouse VEGF-B	103-M62	Rat	E, WB	100µg	
<b>VEGF-C</b>		<b>Vascular endothelial growth factor-C</b>			<b>PP</b>
<b>Synonyms:</b> VRP (Vascular endothelial growth factor related protein); Flt4-L (Flt4 ligand)					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF-C	300-078	Insect cells	18-24 kDa	5µg	
Human VEGF-C	300-079	Insect cells	18-24 kDa	20µg	
Rat VEGF-C	R20-014	Insect cells	18-24 kDa	5µg	
Rat VEGF-C	R20-015	Insect cells	18-24 kDa	20µg	
<b>Biological Activity:</b> Determined (i) by the ability to induce VEGFR-3/FLT-4 receptor phosphorylation in PAEC/VEGFR-3 cells and (ii) the VEGF-C-induced proliferation of primary human dermal lymphatic endothelial cells (HDLEC).					
<b>VEGF-C<sub>152S</sub></b>		<b>Vascular endothelial growth factor-C mutant</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Rat VEGF-C <sub>152S</sub>	R20-016	Insect cells	18-24 kDa	5µg	
Rat VEGF-C <sub>152S</sub>	R20-017	Insect cells	18-24 kDa	20µg	
<b>Biological Activity:</b> Measured by its ability to stimulate phosphorylation of the VEGFR-3/FLT-4 receptor in porcine aortic endothelial cells. The ED <sub>50</sub> for this effect is typically 200-300 ng/ml.					
<b>ELISA Human VEGF-C</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Analyte</b>	<b>Catalog#</b>	<b>Tests</b>	<b>Standard Range</b>	<b>Sensitivity</b>	
Human VEGF-A	BMS297	96/40*	2000-46.9 pg/ml	12.8 pg/ml	
<b>Description:</b> The VEGF-C ELISA is an enzyme-linked immunosorbent assay for quantitative detection of active human Vascular Endothelial Growth Factor C (VEGF-C) in cell culture supernatants, human serum, plasma, or other body fluids. The VEGF-C ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site <a href="http://www.reliatech.de">www.reliatech.de</a> .					
<b>ELISA Rat VEGF-C</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Analyte</b>	<b>Catalog#</b>	<b>Tests</b>	<b>Standard Range</b>	<b>Sensitivity</b>	
Rat/Mouse VEGF-C	BMS626	96/40*	3000-46.9 pg/ml	3.7 pg/ml	
<b>Description:</b> The VEGF-C ELISA is an enzyme-linked immunosorbent assay for quantitative detection of active rat Vascular Endothelial Growth Factor C (VEGF-C) in cell culture supernatants, rat serum, plasma, or other body fluids. The assay is also suitable for measuring mouse VEGF-C in biological fluids! The VEGF-C ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site <a href="http://www.reliatech.de">www.reliatech.de</a> .					
* No. of microwells/samples in duplicate					
<b>Anti-VEGF-C</b>		<b>Vascular endothelial growth factor-C</b>			<b>PP</b>
<b>Polyclonal Antibodies - Protein-A purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-rat VEGF-C#	104-PA10S	Rabbit	WB, IP	100µg	
Anti-rat VEGF-C#	104-PA10	Rabbit	WB, IP	200µg	
# recombinant rat VEGF-C					
<b>Monoclonal Antibodies - Protein-G purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGF-C (#9E7)	101-M90	Mouse	E, WB, IHC	100µg	
Anti-human VEGF-C(#107F10)	101-M91	Mouse	E, WB	100µg	
Anti-human VEGF-C (#2E65)	101-M64	Mouse	E, WB	100µg	
<b>VEGF-D</b>		<b>Vascular endothelial growth factor-D</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VEGF-D	100-374S	293 cells	20-22kDa	2µg	
Human VEGF-D	100-374	293 cells	20-22kDa	10µg	

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<b>Anti-VEGF-D</b>		<b>Vascular endothelial growth factor-D</b>			<b>PP</b>
<b>Polyclonal Antibodies - Protein-A purified</b>					
Product	Catalog#	Source	Application	Size	
Anti-rat VEGF-D#	104-PA12S	Rabbit	WB	100µg	
Anti-rat VEGF-D#	104-PA12	Rabbit	WB	200µg	
# recombinant human/rat VEGF-D					
<b>Monoclonal Antibodies - Protein-G purified</b>					
Product	Catalog#	Source	Application	Size	
Anti-human VEGF-D (2E79)	101-M66	Mouse	E, WB	100µg	
Anti-mouse VEGF-D (8C35)	103-M66	Rat	E, WB	100µg	
<b>VEGF-E</b>		<b>Vascular endothelial growth factor-E</b>			<b>PP</b>
Product	Catalog#	Source	MW	Size	
Orf virus VEGF-E	300-044S	E. coli	35.0 kDa	2µg	
Orf virus VEGF-E	300-044	E. coli	35.0 kDa	5µg	
Orf virus VEGF-E	300-045	E. coli	35.0 kDa	20µg	
<b>Biological Activity:</b> The ED <sub>50</sub> for stimulation of cell proliferation by human umbilical vein endothelial cells for VEGF-E has been determined to be in the range of 5-20 ng/ml.					
<b>Polyclonal Antibodies - Protein-A purified</b>					
Product	Catalog#	Source	Application	Size	
Anti-ov VEGF-E	104-PA70	Rabbit	WB	50µg	
<b>HB-VEGF-E</b>		<b>Heparin-binding VEGF-E</b>			<b>PP</b>
Product	Catalog#	Source	MW	Size	
Orf virus HB-VEGF-E	300-046S	Insect cells	44.0 kDa	5µg	
Orf virus HB-VEGF-E	300-046	Insect cells	44.0 kDa	20µg	
<b>Biological Activity:</b> The ED <sub>50</sub> for stimulation of cell proliferation by human umbilical vein endothelial cells for VEGF-E has been determined to be in the range of 5-20 ng/ml.					
<b>VEGF-F</b>		<b>Vascular endothelial growth factor-F (Bothrops insularis)</b>			<b>PP</b>
Product	Catalog#	Source	MW	Size	
sv VEGF-F	300-096S	E. coli	~32 kDa	2µg	
sv VEGF-F	300-096	E. coli	~32 kDa	5µg	
sv VEGF-F	300-097	E. coli	~32 kDa	20µg	
<b>Polyclonal Antibodies - Protein-A purified</b>					
Product	Catalog#	Source	Application	Size	
Anti-sv VEGF-F#	105-PA01S	Rabbit	WB	100µg	
Anti-sv VEGF-F#	105-PA01	Rabbit	WB	200µg	
<b>Polyclonal Antibodies – Antigen-Affinity purified</b>					
Product	Catalog#	Source	Application	Size	
Anti-sv VEGF-F#	105-PA01AG	Rabbit	WB	50µg	
# recombinant sv VEGF-F					
<b>Biological Activity:</b> Determined by the dose-dependent stimulation of the proliferation of human umbilical vein endothelial cells (HUVEC) using a concentration range of 5-20 ng/ml.					
<b>sVEGFR-1</b>		<b>soluble VEGF receptor-1/Flt-1 (native)</b>			<b>PP</b>
<b>Synonyms:</b> sFlt-1 ( <i>fms</i> -like tyrosine kinase-1)					
Product	Catalog#	Source	MW	Size	
Human sVEGFR-1	S01-009	Insect cells	92.0 kDa	5µg	
Human sVEGFR-1	S01-010	Insect cells	92.0 kDa	20µg	
<b>sVEGFR-1(D5)</b>		<b>soluble VEGF receptor-1(D5)</b>			<b>PP</b>
<b>Synonyms:</b> sFlt-1 ( <i>fms</i> -like tyrosine kinase-1)					
Product	Catalog#	Source	MW	Size	
Human sVEGFR-1(D5)	S01-011	Insect cells	72.0 kDa	5µg	
Human sVEGFR-1(D5)	S01-012	Insect cells	72.0 kDa	20µg	
<b>sVEGFR-1(D4)</b>		<b>soluble VEGF receptor-1(D4)</b>			<b>PP</b>
<b>Synonyms:</b> sFlt-1 ( <i>fms</i> -like tyrosine kinase-1)					
Product	Catalog#	Source	MW	Size	
Human sVEGFR-1(D4)	S01-013	Insect cells	53.0 kDa	5µg	
Human sVEGFR-1(D4)	S01-014	nsect cells	53.0 kDa	20µg	
<b>sVEGFR-1(D3)</b>		<b>soluble VEGF receptor-1(D3)</b>			<b>PP</b>
<b>Synonyms:</b> sFlt-1 ( <i>fms</i> -like tyrosine kinase-1)					
Product	Catalog#	Source	MW	Size	
Human sVEGFR-1(D3)	S01-015	Insect cells	45.0 kDa	5µg	
Human sVEGFR-1(D3)	S01-016	Insect cells	45.0 kDa	20µg	

**sVEGFR-1(D7)-Fc** soluble VEGF receptor-1(D7)/Fc Chimera 

Product	Catalog#	Source	MW	Size
Human sVEGFR-1(D7)-Fc	SFC-005	Insect cells	130.0 kDa	10µg
Human sVEGFR-1(D7)-Fc	SFC-006	Insect cells	130.0 kDa	50µg
Mouse sVEGFR-1(D7)-Fc	SFC-M05	Insect cells	130.0 kDa	10µg
Mouse sVEGFR-1(D7)-Fc	SFC-M06	Insect cells	130.0 kDa	50µg

**ELISA Human VEGFR-1** Conventional ELISA 

Analyte	Catalog#	Tests	Standard Range	Sensitivity
Human VEGFR-1	BMS268	96/40*	10-0.16 ng/ml	0.06 ng/ml

**Description:** The VEGFR-1 ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total human Vascular Endothelial Growth Factor Receptor-1 (VEGFR-1) in cell culture supernatants, human serum, plasma, or other body fluids. The VEGFR-1 ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site [www.reliatech.de](http://www.reliatech.de).

**Anti-human VEGFR-1** 
**Polyclonal Antibodies - Protein-A purified**


Product	Catalog#	Source	Application	Size
Anti-human VEGFR-1	102-PA20S	Rabbit	WB, IHC	100µg
Anti-human VEGFR-1	102-PA20	Rabbit	WB, IHC	200µg
<b>Biotin-conjugated</b>				
Anti-human VEGFR-1	102-PABi20	Rabbit	E	50µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human VEGFR-1(#EWC)	101-M24	Mouse	E, WB, IHC	100µg
Anti-human VEGFR-1(#EIC)	101-M26	Mouse	E, WB, IHC	100µg
Anti-human VEGFR-1(#EWF)	101-M28	Mouse	E, WB, IF	100µg
Anti-human VEGFR-1(#EWI)	101-M30	Mouse	E, WB, IP	100µg
Anti-human VEGFR-1(#7G96)	101-M31	Mouse	E, WB	100µg
Anti-mouse VEGFR-1(#5F13)	103-M31	Rat	E, WB	100µg
Anti-human VEGFR-1	mV1004m-h	Mouse	Agonistic mab	200µg
Anti-hu/mo VEGFR-1	mV1004m-h/m	Mouse	Antagonistic mab	200µg
<b>Biotin-conjugated</b>				
Anti-human VEGFR-1(#EWC)	101-MBi24	Mouse	E, WB	50µg
Anti-human VEGFR-1(#EWF)	101-MBi28	Mouse	E, WB, IF	50µg
Anti-human VEGFR-1(#EWI)	101-MBi30	Mouse	E, WB, IP	100µg


**Anti-human soluble VEGFR-1** 
**Polyclonal Antibodies - Protein-A purified**

Product	Catalog#	Source	Application	Size
Anti-human sVEGFR-1	102-PA21S	Rabbit	WB, IHC	100µg
Anti-human sVEGFR-1	102-PA21	Rabbit	WB, IHC	200µg

**sVEGFR-2** soluble VEGF receptor-2 (native) 


**Synonyms:** KDR (kinase insert domain containing receptor)

Product	Catalog#	Source	MW	Size
Human sVEGFR-2/KDR	S01-003	Insect cells	~110 kDa	5µg
Human sVEGFR-2/KDR	S01-004	Insect cells	~110 kDa	50µg
Mouse sVEGFR-2/Flk-1	S01-M03	Insect cells	~110 kDa	5µg
Mouse sVEGFR-2/Flk-1	S01-M04	Insect cells	~110 kDa	50µg


**sVEGFR-2(D7)** soluble VEGF receptor-2(D7) 

**Synonyms:** KDR (kinase insert domain containing receptor)

Product	Catalog#	Source	MW	Size
Human sVEGFR-2(D7)	S01-001	Insect cells	116.0 kDa	5µg
Human sVEGFR-2(D7)	S01-002	Insect cells	116.0 kDa	50µg


**sVEGFR-2(D7)-Fc** soluble VEGF receptor-2(D7)/Fc Chimera 

Product	Catalog#	Source	MW	Size
Human sVEGFR-2(D7)-Fc	SFC-007	Insect cells	160.0 kDa	10µg
Human sVEGFR-2(D7)-Fc	SFC-008	Insect cells	160.0 kDa	50µg

**ELISA Human VEGFR-2** Conventional ELISA 

Analyte	Catalog#	Tests	Standard Range	Sensitivity
Human VEGFR-2	BMS2019	96/40*	5000-78 pg/ml	7 pg/ml

**Description:** The VEGFR-2 ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total human Vascular Endothelial Growth Factor Receptor-2 (VEGFR-2) in cell culture supernatants, human serum and plasma (EDTA, Citrate, heparin). The VEGFR-2/KDR ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site [www.reliatech.de](http://www.reliatech.de).

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**Anti-VEGFR-2**

PP

**Polyclonal Antibodies - Protein-A purified**

Product	Catalog#	Source	Application	Size
Anti-human VEGFR-2	102-PA18S	Rabbit	WB	100µg
Anti-human VEGFR-2	102-PA18	Rabbit	WB	200µg
Anti-mouse VEGFR-2/Flk-1	103-PA18S	Rabbit	WB	100µg
Anti-mouse VEGFR-2/Flk-1	103-PA18	Rabbit	WB	200µg

**Polyclonal Antibodies – Antigen-Affinity purified**

Anti-human VEGFR-2	102-PA18AG	Rabbit	WB	50µg
<b>Biotin-conjugated</b> Anti-human VEGFR-2	102-PABi18	Rabbit	WB	50µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
Anti-human VEGFR-2 (#EIC)	101-M20	Mouse	E, IHC, FC	100µg
<b>Biotin-conjugated</b> Anti-human VEGFR-2 (#EIC)	101-MBi20	Mouse	E, IHC, FC	50µg
Anti-human VEGFR-2 (#EWC)	101-M22	Mouse	E, WB, FC	100µg
<b>Biotin-conjugated</b> Anti-human VEGFR-2 (#EWC)	101-MBi22	Mouse	E, IHC, FC	50µg
Anti-human VEGFR-2 (#4H3)	101-M32	Mouse	E, WB, FC, IF	100µg
<b>Biotin-conjugated</b> Anti-human VEGFR-2 (#4H3)	101-MBi32	Mouse	E, WB, FC, IF	50µg
Anti-human VEGFR-2 (#2016)	101-M34	Mouse	E, WB, FC, IHC	100µg
<b>Biotin-conjugated</b> Anti-human VEGFR-2 (#2016)	101-MBi34	Mouse	E, WB, FC, IF	50µg
Anti-human VEGFR-2 (#2F66)	101-M35	Mouse	E, WB	100µg
Anti-human VEGFR-2 (#2F46)	101-M35A	Mouse	E, WB, IHC	100µg
Anti-human VEGFR-2	mV1001.3m-h	Mouse	E, WB	200µg

**Monoclonal Antibodies**

Product	Catalog#	Source	Application	Size
"Agonistic mab"				
Anti-mouse VEGFR-2	mV1001r-m	Rat	E, WB	200µg
"Agonistic mab"				
Anti-human VEGFR-2	mV1001.1m-h	Mouse	E, WB	200µg
"Antagonistic mab"				
Anti-mouse VEGFR-2	mV1001.1r-m	Rat	E, WB	200µg
"Antagonistic mab"				
Anti-mouse VEGFR-2 (#3C8)	103-M32	Rat	WB	100µg
Anti-mouse VEGFR-2 (#7A23)	103-M35	Rat	E, WB	100µg
Anti-mouse VEGFR-2 (#6C23)	103-M35A	Rat	WB, IHC	200µg

**Anti-human VEGFR-2****Single chain antibody**

PP

Product	Catalog#	Source	Application	Size
Anti-human VEGFR-2 (#A7)	500-001	E. coli	E, F	100µg

**Anti-soluble VEGFR-2**

PP

**Polyclonal Antibodies - Protein-A purified**

Product	Catalog#	Source	Application	Size
Anti-human sVEGFR-2/KDR	102-PA19S	Rabbit	WB, IHC	100µg
Anti-human sVEGFR-2/KDR	102-PA19	Rabbit	WB, IHC	200µg
Anti-mouse sVEGFR-2/Flk-1	103-PA19S	Rabbit	WB,	100µg
Anti-mouse sVEGFR-2/Flk-1	103-PA19	Rabbit	WB,	200µg

**sVEGFR-3****soluble VEGF receptor-3**

PP

Product	Catalog#	Source	MW	Size
Human sVEGFR-3(D7)	S01-017S	Insect cells	120.0 kDa	5µg
Human sVEGFR-3(D7)	S01-017	Insect cells	120.0 kDa	10µg
Human sVEGFR-3(D7)	S01-018	Insect cells	120.0 kDa	50µg

**sVEGFR-3-Fc****soluble VEGF receptor-3/Fc Chimera**

PP

Product	Catalog#	Source	MW	Size
Human sVEGFR-3(D7)-Fc	SFC-009	Insect cells	260.0 kDa	10µg
Human sVEGFR-3(D7)-FC	SFC-010	Insect cells	260.0 kDa	50µg



<b>ELISA Human VEGFR-3</b>		<b>Conventional ELISA</b>			<b>PP</b>
<b>Analyte</b>	<b>Catalog#</b>	<b>Tests</b>	<b>Standard Range</b>	<b>Sensitivity</b>	
Human VEGFR-3	BMS2064	96/40*	40-0,6 ng/ml	0,03 ng/ml	

**Description:** The VEGFR-3 ELISA is an enzyme-linked immunosorbent assay for quantitative detection of total human Vascular Endothelial Growth Factor Receptor-3 (VEGFR-3/FLT-4) in cell culture supernatants, human serum and plasma (Citrate). The VEGFR-3/FLT-4 ELISA is for research use only. Not for use in diagnostic or therapeutic procedures. For detailed information see manual on our web site [www.reliatech.de](http://www.reliatech.de).

<b>Anti-human VEGFR-3</b>					<b>PP</b>
<b>Polyclonal Antibodies – Antigen-Affinity purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGFR-3#	102-PA22S	Rabbit	E, WB,	100µg	
Anti-human VEGFR-3#	102-PA22	Rabbit	E, WB, IP	200µg	
Anti-human VEGFR-3#	102-PA22AG	Rabbit	E, WB, IP	50µg	
<b>Monoclonal Antibodies</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VEGFR-3 (#8C8)	101-M36	Mouse	E, WB, IHC, FC	100µg	
<b>Biotin-conjugated</b>					
Anti-human VEGFR-3 (#8C8)	101-MBi36	Mouse	E, WB, IHC, FC	50µg	
Anti-human VEGFR-3 (#3F12)	101-M37	Mouse	E, WB, IHC	100µg	
Anti-human VEGFR-3 (#7G63)	101-M38	Mouse	E, WB	100µg	
Anti-mouse VEGFR-3 (#7G63)	103-M36	Rat	E, WB	100µg	
Anti-mouse VEGFR-3 (#5F63)	103-M38	Rat	E, WB	100µg	
Anti-mouse VEGFR-3	mV1003m-m	Mouse	E, WB	200µg	
"Antagonistic mab"					

<b>Anti-human Versican</b>					
<b>Polyclonal Antibodies - Protein-A purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human Versican	101-M701	Mouse	WB	100µg	

<b>Anti-VE-Statin/EGFL-7</b>		<b>NOTCH4-like protein</b>			<b>PP</b>
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human VE-Statin/EGFL7	300-100	Insect cells	22.7 kDa	20µg	
Human VE-Statin/EGFL7*	100-433S	E. coli	27.4 kDa	2µg	
Human VE-Statin/EGFL7*	100-433	E. coli	27.4 kDa	10µg	
Mouse VE-Statin/EGFL7	M30-100	Insect cells	22.7 kDa	20µg	
<b>Polyclonal Antibodies - Protein-A purified</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>Application</b>	<b>Size</b>	
Anti-human VE-Statin/EGFL-7	102-PA14S	Rabbit	WB, IP, ICC	100µg	
Anti-human VE-Statin/EGFL-7	102-PA14	Rabbit	WB, IP, ICC	200µg	
Anti-human VE-Statin/EGFL-7	102-PA15S	Rabbit	WB, IP, ICC	100µg	
Anti-human VE-Statin/EGFL-7	102-PA15	Rabbit	WB, IP, ICC	200µg	
Anti-human VE-Statin/EGFL-7	102-PA16S	Rabbit	WB, IP, ICC	100µg	
Anti-human VE-Statin/EGFL-7	102-PA16	Rabbit	WB, IP, ICC	200µg	
Anti-mouse VE-Statin/EGFL-7	103-PA14S	Rabbit	WB, IP, ICC	100µg	
Anti-mouse VE-Statin/EGFL-7	103-PA14	Rabbit	WB, IP, ICC	200µg	

<b>Vimentin</b>		<b>Vim</b>			
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human Vimentin	100-434S	E. coli	54.3 kDa	20µg	
Human Vimentin	100-434	E. coli	54.3 kDa	100µg	

<b>Viral MIP-2</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human Viral MIP-2	100-364S	E. coli	7.9 kDa	10µg	
Human Viral MIP-2	100-364	E. coli	7.9 kDa	50µg	

**Biological Activity:** Determined by the inhibitory effect on monocyte migration response to human MIP-1 alpha using a concentration range of 1-10 µg/ml of viral MIP-2 will inhibit 25 ng/ml of human MIP-1 alpha.

<b>Visfatin</b>					
<b>Product</b>	<b>Catalog#</b>	<b>Source</b>	<b>MW</b>	<b>Size</b>	
Human Visfatin	100-363S	E. coli	52.5 kDa	5µg	
Human Visfatin	100-363	E. coli	52.5 kDa	25µg	

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant proliferation of the RPMI 8226 cells is 15-20 ng/ml.

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**Vitronectin**

Product	Catalog#	Source	MW	Size
Human Vitronectin	100-385S	Hek 293	75 kDa	100µg
Human Vitronectin	100-385	Hek 293	75 kDa	500µg

**Anti-human vWF-A2***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human vWF-A2	101-M702	Mouse	WB	100µg

**Anti-WIF-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human WIF-1	101-M703	Mouse	WB, IHC(P)	100µg
Anti-mouse WIF-1	103-M285	Rat	WB	100µg

**WISP-1****Wnt-1-induced secreted protein**

Product	Catalog#	Source	MW	Size
Human WISP-1	100-365S	E. coli	38.1 kDa	5µg
Human WISP-1	100-365	E. coli	38.1 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant proliferation of the MCF-7 cell line is 1-3 µg/ml.

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human WISP-1	101-M704	Mouse	WB	100µg
Anti-mouse WISP-1	103-M500	Rat	WB	100µg

**WISP-3****Wnt-1 inducible signaling pathway protein-3**

Product	Catalog#	Source	MW	Size
Human WISP-3	100-366S	E. coli	36.8 kDa	5µg
Human WISP-3	100-366	E. coli	36.8 kDa	20µg

**Biological Activity:** The ED<sub>50</sub> as determined by the dose-dependant proliferation of the MCF-7 cell line is 0.2-0.3 µg/ml.

**Wnt**

Synonyms: INT-1

Product	Catalog#	Source	MW	Size
Human Wnt-1	100-367S	E. coli	38.4 kDa	2µg
Human Wnt-1	100-367	E. coli	38.4 kDa	10µg
Mouse Wnt-3a	M10-231S	Cell culture	38-41 kDa	2µg
Mouse Wnt-3a	M10-231	Cell culture	38-41 kDa	10µg
Human Wnt-7a	100-129S	HEK293 cells	44-55 kDa	3µg
Human Wnt-7a	100-129	HEK293 cells	44-55 kDa	15µg

**Biological Activity:** **Wnt-1:** The ED<sub>50</sub> as determined by its ability to enhance BMP-2 induced alkaline phosphatase production by mouse ATDC5 cells is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2. **Wnt-3a:** The ED<sub>50</sub> was determined by its ability to induced alkaline phosphatase production by CCL-226 cells. The expected ED<sub>50</sub> for this effect is 0.4-0.6 ng/ml. **Wnt-7a:** Determined by its ability to inhibit Wnt3a induced alkaline phosphatase production in MC3T3-E1 cells. The expected ED<sub>50</sub> for this effect is 40-60 ng/ml.

*Polyclonal Antibodies - Protein-A purified*

Product	Catalog#	Source	Application	Size
Anti-human Wnt-1	102-P256	Rabbit	E, WB	100µg
Anti-human Wnt-3a	102-P257	Rabbit	E, WB	100µg

*Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-mouse Wnt-3a	103-M501	Rat	WB, N	100µg
Anti-mouse Wnt-4	103-M502	Rat	WB	100µg
Anti-mouse Wnt-8a	103-M503	Rat	WB	100µg

**Anti-XCL-1***Monoclonal Antibodies*

Product	Catalog#	Source	Application	Size
Anti-human XCL-1	101-M705	Mouse	WB	100µg
Anti-mouse XCL-1	103-M504	Rat	WB	100µg

**Scientific section: The formation of blood and lymphatic vessels**

**Vasculogenesis**, the de novo formation of blood vessel from stem cells is an important process during development. **Angiogenesis** and **lymphangiogenesis**, the formation of blood vessels and lymphatics from pre-existing vessels, is another vital step for further development of the embryo and a number of physiological and pathological conditions. All members of the Vascular Endothelial Growth Factor family (VEGF-A, VEGF-B, PlGF, VEGF-C, VEGF-D and viral VEGF-E) are potent mitogens and differentiation factors for the vascular and lymphatic endothelium. They can induce angiogenesis and lymphangiogenesis in vitro and in vivo and some of them are potent vascular permeability inducers. These growth factors mediate their signals through three members of the receptor-type tyrosine kinase family called VEGFR-1 (flt-1), VEGFR-2 (KDR) and VEGFR-3 (flt-4). These transmembrane receptors have the general structure of a glycoprotein receptor with an extracellular ligand binding domain containing seven immunoglobulin-like domains and a split tyrosine kinase domain within their cytoplasmic region. An additional family of receptors, the neuropilins has also been identified and appears to function as co-receptors to modulate binding to other receptors without being active in signalling.

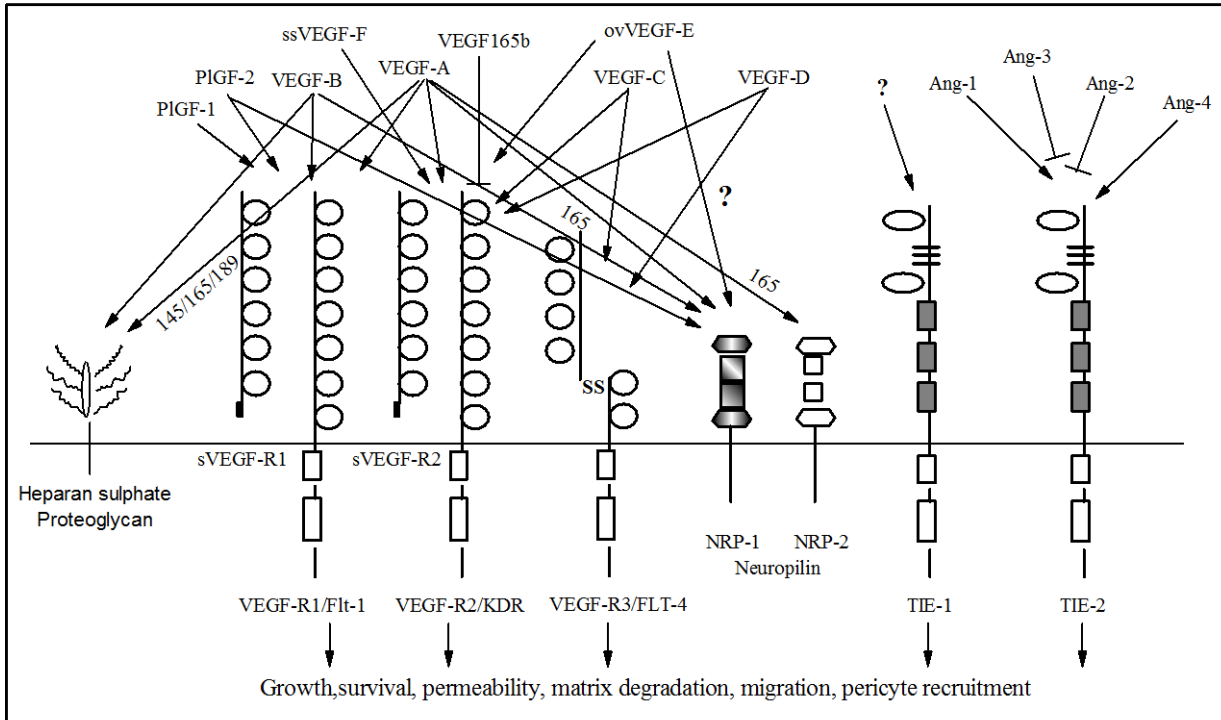
**VEGFR-1** is the dominant VEGF receptor on monocytes and responsible for chemotaxis and tissue factor activation. It also plays an important role for signalling and recruitment of stem cells and endothelial precursor cells either alone or in combination with other VEGF receptors. The soluble splice product of this receptor is involved in the fine tuning of VEGF activity during the angiogenic cascade and a prognostic marker for tumour progression in breast cancer. Inactivation of the VEGFR-1 by homologous recombination in mouse has shown that VEGFR-1 is essential for vessel differentiation and maturation, as embryos die around E10 and lack functional blood vessel. Ligands for VEGFR-1 include several isoforms of PlGF, VEGF-A and VEGF-B.

**VEGFR-2** is the major receptor in terms of mitogenic signalling for vascular endothelial cells, and there is evidence to suggest that it also plays a role in mediating the signals for vascular permeability. Inactivation of the VEGFR-2 gene in mouse embryonic stem cells has shown that VEGFR-2 signalling is absolutely required for vasculogenesis, as embryos lack both hematopoietic and endothelial precursor cells and die around E9. VEGFR-2 activation is also the key signalling pathway in a number of pathological conditions including cancer, where this receptor is frequently up-regulated on growing vessels. Numerous studies using specific inhibitors have shown that the VEGF/VEGFR-2 signalling pathway is critical for tumour angiogenesis and therefore solid tumor growth. Expression of VEGFR-2 in various cell types results in the ability to respond to ligands by the transduction of a mitogenic signal. Activation of VEGFR-2 results in the phosphorylation of numerous tyrosine residues within the cytoplasmic domain. These results in the association of a variety of signalling molecules including Shc, Grb2 and MAP kinase. Ligands for VEGFR-2 are VEGF-A, viral VEGF-E and, at a significant lower affinity, VEGF-C and VEGF-D.

**VEGFR-3** is the major receptor for lymphatic endothelial cells in terms of mitogenic signalling and differentiation of the lymph vessels. Mutations in the VEGFR-3 lead to severe pathological implications concerning the function of the lymphatics for fluid accumulation and plasma drainage. In early blood vessel formation VEGFR-3 is expressed together with VEGFR-1 and VEGFR-2 but later during development its expression is restricted to mature lymphendothelial cells. Therefore VEGFR-3 is a specific marker for lymphatics and can be used to isolate lymphendothelial cells from a mixture from different endothelial progenitor cells. So far ligands for VEGFR-3 include VEGF-C and VEGF-D, which are processed from precursor molecules. The further analysis of VEGFR-1 to VEGFR-3 and their functional relationship to other receptors, accessory proteins and co-receptors in development and diseases will be areas of much interest in vascular biology and lymphangiogenesis.

# Complexity of binding affinities:

## Endothelial-specific receptor tyrosine kinases and their ligands



VEGF-A: VEGF121 / 145 / 165 / 189 / 206;

E.I. Korpelainen and K. Alitalo, Curr. Opin. Cell Biol. 10:159, 1998

## The VEGF-, PlGF- and PDGF-Family of Growth Factors

Growth Factors (human)	MW-secreted form *	Target cells (partial list)	Receptors	Functions (partial list)
<b>Vascular Endothelial Growth Factors</b>				
<b>VEGF-A (VEGF-121 / -120)</b> See page 106	~34kDa*	Vascular and lymphatic endothelial cells, monocytes, stem cells, BM-cells, tumor cells	VEGFR-1 /-2	Migration and proliferation of vascular endothelial cells, migration of monocytes
<b>VEGF-A (VEGF-145 / -144)</b> See page 107	~38kDa*	Vascular and lymphatic endothelial cells, monocytes, stem cells, BM-cells, tumor cells	VEGFR-1 /-2	Proliferation of vascular endothelial cells
<b>VEGF-A (VEGF-165 / -164)</b> See page 107	~45kDa*	Vascular and lymphatic endothelial cells, monocytes, stem cells, BM-cells, tumor cells	VEGFR-1 /-2	Migration and proliferation of vascular endothelial cells, migration of monocytes
VEGF-A (VEGF-165b)	~45kDa	Vascular and lymphatic endothelial cells	VEGFR-2	Inhibits migration and proliferation of vascular endothelial cells
<b>VEGF-A (VEGF-189 / -188)</b> See page 107	~52kDa*	Vascular and lymphatic endothelial cells, monocytes, stem cells, BM-cells, tumor cells	VEGFR-1 /-2	Migration and proliferation of vascular endothelial cells, migration of monocytes
<b>VEGF-A (VEGF-206)</b> See page 102	~60kDa	Vascular and lymphatic endothelial cells, monocytes, stem cells, BM-cells, tumor cells	VEGFR-1 /-2	Grützkau A et al., Mol Biol Cell 9:875, 1998; Park JE et al., Mol Biol Cell 4: 1317, 1993
<b>VEGF-B (167aa)</b>	~38kDa	Vascular endothelial cells, monocytes, tumor cells	VEGFR-1	involved in postnatal vessel growth,
VEGF-B (186aa)	~56kDa	Vascular endothelial cells, monocytes, tumor cells	VEGFR-1	Activation of urokinase type plasmin activator and PAI-1, involved in postnatal vessel growth
<b>VEGF-C</b> (dNdC) See page 109	~42kDa*	Lymphatic endothelial cells, tumor cells	VEGFR-2 /-3	Involved in growth and differentiation of lymphatic endothelial cells, proliferation of vascular endothelial cells
<b>VEGF-C<sub>156</sub> mutant</b> (dNdC) See page 109	~42kDa*	Lymphatic endothelial cells, tumor cells	VEGFR-3	Involved in growth and differentiation of lymphatic endothelial cells, proliferation of vascular endothelial cells
VEGF-D (dNdC)	~22kDa#	Lymphatic endothelial cells, tumor cells	VEGFR-2 /-3	Involved in growth and differentiation of lymphatic endothelial cells, proliferation of vascular endothelial cells
<b>ov-VEGF-E</b> See page 110	~35kDa*	Vascular endothelial cells	VEGFR-2	Proliferation of vascular endothelial cells
<b>sv-VEGF-F</b> See page 109	~28kDa	Vascular endothelial cells	VEGFR-2	Increase of vascular permeability
<b>Placenta Growth Factors</b>				
<b>PlGF-1 (131aa)</b> See page 87	~36kDa*	Vascular endothelial cells, monocytes, connective tissue	VEGFR-1	Migration of vascular endothelial cells and monocytes,
<b>PlGF-2 (172aa)</b> See page 88	~48kDa*	Vascular endothelial cells, monocytes, connective tissue	VEGFR-1	Migration of vascular endothelial cells and monocytes,
PlGF-3 (201aa)	60kDa	VEGFR-1/Flt-1 expressing cells	VEGFR-1	Cao et al., Biochem Biophys Res Commun 235 :493-498, 1997
PlGF-4 (222aa)	~ 54kDa	VEGFR-1/Flt-1 expressing cells	VEGFR-1	Yang et al., J Reproductive Immunology 60:53-60, 2003
<b>Platelet-derived Growth Factors</b>				
<b>PDGF-AA</b> See page 86	~28kDa*	Fibroblasts, muscle cells, neuronal cells, T-cells	PDGFR-aa / -ab	Proliferation of e.g. fibroblast, muscle cells, hepatocytes
<b>PDGF-AB</b> See page 86	~25kDa*	Fibroblasts, muscle cells, neuronal cells	PDGFR-aa / -ab	Proliferation of e.g. fibroblast, muscle cells, hepatocytes
<b>PDGF-BB</b> See page 86	~24kDa*	Fibroblasts, muscle cells, tumor cells	PDGFR-bb	Proliferation of e.g. fibroblast, muscle cells, hepatocytes
PDGF-CC (active form)	~36kDa	Vascular smooth muscle cells, fibroblasts,	PDGFR-aa / -ab	Proliferation/survival of vascular smooth muscle cells <i>in vitro</i>
PDGF-DD (active form)	~35kDa	Mesenchymal cells,	PDGFR-bb	Proliferation/survival of vascular smooth muscle cells <i>in vitro</i>

\* recombinant proteins expressed in insect cells; # monomeric protein

## The FGF Family of Growth Factors

Fibroblast Growth Factors	MW-secreted form (mouse)	~pI	Target cells (partial list)	Receptors	Functions (partial list)
<b>FGF1 (Acidic FGF)</b> Heparin-binding growth factor-1 (HBGF-1) Beta-endothelial cell growth factor ECGF-beta (endothelial cell growth factor-beta)	15.8 (15.7 kDa)	7.99 (7.88)	mesenchymal, neuroectodermal endothelial	all FGF receptors	Angiogenic in vivo Mitogenic in vitro wound healing
<b>FGF2 (Basic FGF)</b> Heparin-binding growth factor-2 (HBGF-2) Prostatropin [See page 42]	17.2 (17.1 kDa)	10.03 (9.59)	mesenchymal, neuroectodermal endothelial	1b, 1c 2c, 3c, 4	Vasculogenesis, wound healing, angiogenesis, hematopoiesis, neuron survival
<b>FGF3</b> Int-2	24.9 (25.2 kDa)	10.98 (10.84)	epithelial cells that express FGF receptor 2b	2b	Mesoderm induction, Angiogenesis, inner ear development
<b>FGF4</b> Heparin secretory transforming protein (HST-1) Transforming protein KS3 Heparin-binding growth factor 4 (HBGF-4)	19.7 (18.9 kDa)	10.22 (10.24)	cells that express FGF receptors	1c, 2c, 3c, 4	Angiogenesis, vertebrate limb development and development of stomach cancer
<b>FGF5</b> Heparin-binding growth factor 5 (HBGF-5) Smag-82	27.5 (27.1 kDa)	11.1 (10.5)	cells that express FGF receptors	1c, 2c	Hair growth and development
<b>FGF6</b> Heparin-binding growth factor 6 (HBGF-6) HST-2	18.7 (18.91 kDa)	10.09 (9.80)	cells that express FGF receptors	1c, 2c, 4	Skeletal muscle development
<b>FGF7/KGF</b> Keratinocyte Growth Factor Heparin-binding growth factor 7 (HBGF-7)	18.9 (18.8 kDa)	9.55 (9.22)	keratinocytes and epithelial cells that express FGF receptor 2b	2b	Keratinocyte growth factor, kidney and lung development, angiogenesis and wound healing
<b>FGF8</b> Androgen-induced growth factor (AIGF) Heparin-binding growth factor 8 (HBGF-8)	22.4 (28.0 kDa)	10.95 (10.46)	Mammary carcinoma cells and other cells that express FGF receptors	2c, 3c, 4 (possibly 1c)	Limb, central nervous system, cardiac outflow tract development
<b>FGF9</b> Heparin-binding growth factor 9 (HBGF-9) Glia activating factor (GAF) [See page 43]	23.4 (23.3 kDa)	7.44 (7.44)	Glial cells, astrocytes cells and other cells that express FGF receptors	1c, 2c, 3b, 3c, 4	Glia-activating factor, motoneuron survival, lung and testes development
<b>FGF10</b> Keratinocyte growth factor 2 FGFA [see page 42]	19.3 (19.5 kDa)	10.49 (9.76)	Epithelial cells that express FGF receptor 2b	2b	Wound healing, multi-organ development including limb and lung
<b>FGF11</b> Fibroblast growth factor homologous factor 3 (FHF-3)	25.0 (25.1 kDa)	9.92 (10.06)		none	Appears to be involved in nervous system development and function
<b>FGF12</b> Fibroblast growth factor homologous factor 1 (FHF-1)	27.4 kDa	9.98		none	Appears to be involved in nervous system development and function
<b>FGF13</b> Fibroblast growth factor homologous factor 2 (FHF-2)	27.5 (27.6 kDa)	9.92 (9.92)		none	Appears to be involved in nervous system development and function
<b>FGF14</b> Fibroblast growth factor homologous factor 4 (FHF-4) FGFD	27.7 (27.7 kDa)	10.11 (10.11)		none	Regulates central nervous system development and function
<b>FGF15</b> FGFF, identified in mouse and human	(22.5 kDa)	(5.76)	Unknown at time of printing	Unknown at time of printing	Regulator of cell division and patterning in specific regions of embryonic brain, spinal cord and sensory organs
<b>FGF16</b> FGFG	23.7 kDa	9.52	cells that express FGF receptors	2c, 3c	Central nervous system development
<b>FGF17</b> FGFH	22.7 (22.5 kDa)	11.22 (10.71)	cells that express FGF receptors	1c, 2c, 3c, 4	Signal transduction and patterning of embryonic brain
<b>FGF18</b> ZFGF5 FGFI	21.2 (20.9 kDa)	10.67 (10.09)	cells that express FGF receptors	1c, 2c, 3b, 3c, 4	An essential regulator of long bone and calvarial development
<b>FGF19</b> FGFJ, identified in human not mouse	21.8 kDa	6.32	cells that express FGF receptor 4	4	Expressed during brain development and during angiogenesis
<b>FGF20</b> FGFK	23.2 kDa	9.2	Epithelial cells and mesenchymal cells	1c, 2c, 3c	Expressed during limb and brain development
<b>FGF21</b> FGFL	19.4 (19.9 kDa)	5.92 (4.59)	Unknown at time of printing	Unknown at time of printing	Expressed in liver
<b>FGF22</b> FGFM	17.1 (16.5 kDa)	11.71 (11.58)	Hair follicle-keratinocytes	Unknown at time of printing	May be involved in cutaneous development & repair, and hair development
<b>FGF23</b> FGFN	25.3 (25.3 kDa)	8.95 (9.64)	Renal proximal epithelial cells	3c	Expressed in brain and thymus, regulates phosphate homeostasis,

## Cytokines and their Target Cells

Cytokines & Growth Factors	Vascular ECs	Lymphatic ECs	Fibroblasts	Stem cells	Dendritic cells	Mono-cytes	Hepato-cytes	Macro-phages	Kerati-no-cytes	Muscle cells	Bone cells	Epithelial
Ang-1	X	X										
Ang-2	X	X										
BCA-1												
BDNF												
BMP-2											X	
SCD40-Lig												
EGF	X											X
Eotaxin												
Eotaxin-2												
Eotaxin-3												
Exodus-2												
FGF-acidic	X		X									
FGF-basic	X	X	X	X								
FGF-4			X									
FGF-5			X									
FGF-6			X									
FGF-8			X									
FGF-9			X									
FGF-10			X									
FGF-16			X									
FGF-17			X									
FGF-18			X									
FGF-19			X									
flt-3-L												
Fractalkine												
G-CSF												
GDNF												
GM-CSF						X						
GRO/MGSA												
GRO-beta												
GRO-gamma												
HCC-1						X						
HGF/SF	X	X	X				X					
IFN-alpha												
IFN-beta												
IFN-gamma						X		X				
IGF-1		X								X	X	
IGF-2										X	X	
Il-1-alpha												
Il-1-beta												

Chondro-Cytes	Mesenchymal cells	Tumor cells	Neuronal cells	LAK cells	Connective tissue	Lymphocytes	Neutrophils	Eosinophils	T-cells	B-cells	BM-cells	NK-cells
										X		
X	X		X									
								X				
								X				
								X				
	X											
	X											
											X	
							X			X	X	
			X				X				X	
		X					X					
							X					
							X					
						X						
						X						
							X		X	X		X
									X	X		
						X						



Cytokines & Growth Factors	Vascular ECs	Lymphatic ECs	Fibroblasts	Stem cells	Dendritic cells	Mono-cytes	Hepato-cytes	Macro-phages	Kerati-no-cytes	Muscle cells	Bone cells	Epi-thelial
Il-2												
Il-3				X				X				
Il-4					X							
Il-6					X							
Il-8												
Il-10						X						
Il-12												
IP-10						X						
KGF									X			X
LEC						X						
MCP-1						X		X				
MCP-2						X		X				
MCP-3						X		X				
MCP-4						X						
M-CSF						X		X				
MIP-1alpha						X		X				
MIP-1beta						X		X				
MIP-3						X						
MIP-3alpha						X		X				
MIP-4												
MIP-5												
beta-NGF												
Oncostatin M			X									
PDGF-AA			X							X		
PDGF-AB			X							X		
PDGF-BB			X							X		
PlGF-1 / -2	X					X						
SCF				X								
SDF-1												
TGF-alpha									X			X
TGF-beta	X		X						X		X	X
Thrombopoietin				X								
TNF-alpha												
TNF-beta												
TRAIL/Apo-2L												
VEGF-A	X	(X)		X		X						
VEGF-B	X					X						
VEGF-C		X										
VEGF-D		X										
VEGF-E	X											

Chondro-Cytes	Mesenchymal Cells	Tumor cells	Neuronal cells	LAK cells	Connec-tive tissue	Lympho-cytes	Neutro-phils	Eosino-phils	T-Cells	B-cells	BM-Cells	NK-cells
				X					X			X
							X				X	
									X	X		
							X		X	X		
									X	X		
						X			X			X
									X			
								X	X			
									X			
			X						X			
		X	X		X							
					X							
									X	X		
											X	
			X			X			X			
		X				X	X		X			
		X										
		X									X	
		X										
		X										
		X										
		X										
		X										
		X										
		X										

## ReliaTech - About us

Our company is focused on the discovery and commercialization of new products in the field of angiogenesis, lymphangiogenesis, cell-surface-receptors and their ligands.

As a first line we provide a large repertoire of growth factors, cytokines and soluble receptors. Our portfolio is completed by a growing selection of mono- and polyclonal antibodies against these molecules.

<b>ReliaTech at a glance</b>	
Company board	Dr. Herbert Weich Dr. Bernhard Barleon Prof. Avner Yayon Dr. Volker Jäger
Company founding	1999
Location	Wolfenbüttel (since 2009)
Managing director	Dr. Bernhard Barleon (since 2001)
Partners	BenderMedsystems, <i>Wien, Austria</i> Angio-Proteomie, <i>Boston, U.S.</i>
Cooperations	Lymphangiogenomics network <a href="http://www.lymphomic.org/">http://www.lymphomic.org/</a>

of the company.

A second and increasingly popular line is our customer services section. It comprises everything concerning production and/or purification of proteins on behalf of our customers.

As a particular specialty approved by a growing number of scientists we use also Baculovirus expression systems in addition to our common protein production in *E. coli*.

Applying the Baculovirus system our customers can now easily profit from the advantages of an insect cell based eukaryotic environment to express their protein of interest – a useful advantage e.g. when unique glycosylation patterns might influence protein function.

The company was founded in September 1999 in Braunschweig by Dr. Herbert Weich, who was joined 2000 by Dr. Bernhard Barleon and Prof. Avner Yayon. Since 2007 Dr. Volker Jäger is an additional stockholder

## Faces@ReliaTech



### Dr. Bernhard Barleon (CEO), PhD

- Started to run ReliaTech's operating business in 2001 after nearly 10 years of scientific work at the "Institute for Molecular Medicine", University of Freiburg.
- Focus of scientific competence: isolation and characterization of primary human vascular endothelial cells, establishment of bio assays and protein production in insect cells.



### Dr. Herbert Weich (Scientific advisor), PhD

- Gained his scientific knowledge at *Harvard Medical School*, Boston, the "Institute of Molecular Cell Biology" (University of Freiburg) and the "Helmholtz Centre for Infection Research (HZI)" Braunschweig (formerly *GBF Braunschweig*).
- Focus of scientific competence: characterization of primary human and mouse vascular and lymphatic endothelial cells, production and characterization of angiogenesis growth factors and ligand receptor interaction studies.



### Dr. Avner Yayon (Scientific advisor), PhD, M.D.

- Gained scientific and medical expertise at *Harvard Medical School*, Boston, "Soroka Medical Center", Beer Sheva, as associate professor at the "Weizmann Institute of Science", Rehovot.
- Is a founder and CSO of ProChon Biotech, Fibron and ProCore Biomed.
- Focus of scientific competence: heparin binding growth factors (especially the FGF family), bone development, cartilage repair and regenerative medicine.



### Dr. Volker Jäger (Scientific advisor), PhD

- Acquired his scientific expertise at the "Universities of Braunschweig and Hannover" and the *Helmholtz Centre for Infection Research (HZI)* Braunschweig.
- Focus of scientific competence: large-scale animal cell culture, process development, recombinant protein production and tissue engineering.

## Our logo

ReliaTech's logo is a bird's eye view of a homodimeric ligand forming a complex with the extracellular domain of a heterodimeric receptor.

This interaction is the most critical and specific step in the activation of signal transduction by many ligands and receptors – a common example being the interaction of growth factors with their membrane tyrosine kinase receptors.



## Our customers

Our customers derive from basic research, drug development and the pre-clinical research community. Since our inception we have gained a growing number of customers worldwide. Currently our supply-chain extends throughout Europe to the U.S. and Asia.

## General Terms and Conditions of Sale and Delivery of ReliaTech GmbH

### 1. Application

- 1.1 The companies present and future business relation shall be governed exclusively by our General Terms and Conditions of Sales and Delivery set forth hereinafter unless otherwise agreed upon in writing in the individual case.
- 1.2 Deviating declarations and terms and conditions of business of the Purchaser shall not be binding on us even if we do not object thereto upon conclusion for the contract. There shall be binding only if expressly acknowledge by us in writing.

### 2. Order and Order Confirmation

- 2.1 All our offers are non-binding regarding price, quantity, manufacturing. Indicated measurements and weights are subject to tolerance which is customary in the trade. We reserve the right to make changes to construction and material. An order shall be deemed accepted only after we will have confirmed acceptance in writing or supplied the goods.
- 2.2 Side agreements, warranties and other agreements shall be legally effective only if expressly confirmed by us in writing.

### 3. Delivery

- 3.1 Delivery dates and periods shall be approximate and non-binding, unless they are agreed upon in writing and expressly identified as being binding.
- 3.2 In the event of non-compliance with a delivery date which has been confirmed as being binding, the Purchaser may grant as a reasonable additional period of not less than six (6) weeks indicating that after expiration of the additional period our performance will no longer be accepted. In the event that delivery is not made during the additional period of time, the purchaser may rescind the contract by written declaration. He shall be entitled to claim damages only if intent or gross negligence is involved on our part or on the part of our statutory representatives, executives or agents employed for performance. Liability pursuant to § 287 German Civil code (BGB) shall be excluded.
- 3.3 We shall be entitled to make partial delivery to a reasonable extent.

### 4. Shipment

Shipment fees:

- 4.1 Germany:  
Consignments within Germany are free of charge for our end customers (except cooled transportations or dry ice shipments which are charged to the customer). An express delivery (delivery within 24 hours after shipment by ReliaTech) is possible upon request. The express delivery will be charged by 10 Euro).
- 4.2 Countries of the European Union and Switzerland:  
Since January 2010 ReliaTech's consignments to European countries and Switzerland are charged by shipment fees. The basic shipment fee is 25 Euro and might be adjusted without further notification based on the shipment companies' tariffs for the target country. Fees for special shipments (cooled by ice or dry ice) are adjusted accordingly. Further information concerning current shipment fees can be requested at ReliaTech at any time.
- 4.3 Countries outside Europe:  
End customers from outside West-Europe and ReliaTech's distributors have to pay their own shipment costs. Further information concerning current shipment fees can be requested at ReliaTech at any time.

### 5. Notice of Defect and Warranty

- 5.1 The duty of inspection relates to the whole delivery.
- 5.2 Notices of defect must be made immediately, but not later than eight (8) days after receipt of the goods and be addressed directly to us in such a manner that we can check the defectiveness and the justification of the complaint. Complaints made orally or over the telephone must be confirmed by the Purchaser in writing by registered letter, telefax or email.
- 5.3 Hidden defects may be asserted only within a reasonable period of time and must be complained of within eight days after discovery pursuant to paragraph 5.2.
- 5.4 If the complaint in respect of a defect has been filed in time and if it is justified, we shall be obligated to provide goods in replacement at no cost. The purchaser shall be entitled to rescind the contract with respect to the defective item supplied or to claim reasonable reduction of the purchase price therefor only in the event of express refusal or failure of replacement of the goods.
- 5.5 We do not assume any warranty for products which are not stored according to the storage conditions indicated on their packs or delivery notes.

5.6 The above conditions include the warranty for our goods in a final manner. In particular, the Purchaser may claim damages for defective goods - for any legal reason whatsoever - only of intent or gross negligence of involved on our part or on the part of our statutory representatives, executives, agents employed for performance and/or vicarious agents. In the case of gross negligence our liability shall be limited to the foreseeable damage. This exclusion and or limitation applies also to any person liability of our statutory representatives and staff members. However, it does not apply to characteristics warranted by us within the meaning of sections 459II, 480 II BGB.

## **6. Liability**

6.1 Our contractual and statutory liability (for example, for default, impossibility, culpa in contrahendo, breach for an obligation other than by delay or impossibility, tort, etc.) shall be limited to intent and gross negligence on the part of our statutory representatives, executives, agents employed for performance and vicarious agents. In the case of gross negligence, our liability shall be limited to foreseeable damage unless a cardinal duty has been violated.

6.2 This exclusion and/or limitation of liability applies also to any personal liability of our statutory representatives and staff members.

6.3 Our products are intended only for in vitro use and for purposes for research. They are not intended for application to human beings and, in particular, they may not be used for the preparation of or as an ingredient of meals, food, medicines or household articles. To the extent that specific characteristics and fitness of the products for a contractually agreed purpose of use have not been confirmed by us in writing, any advice with respect to application even if given to one's best knowledge shall, in each and any case, be non-binding.

6.4 To the extent that we are liable or to the extent that exclusion or limitation of liability is impermissible. In whole or in part, the amount of liability, except for intent and gross negligence, shall be limited to our maximum insurance amount which presently is EUR 52.650,-.

## **7. Returns**

7.1 Supplied goods which are free from defects may not be returned, in whole or in part, unless this has been clearly agreed upon and conformed by us at least over the telephone or by email. Returns shall be made to the address indicated by us.

## **8. Prices/Payment**

8.1 Prices are subject to change without notice.

8.2 The invoice amounts shall be payable without deduction within thirty (30) days after invoice date at the latest or with 2% discount within 14 (14) days after invoice date at the latest.

8.3 If the Purchaser defaults in payment, we shall be entitled to charge default interest at the rate of three per cent (8%) per annum above the discount rate of the German Federal Bank. The interest shall be higher or lower if we prove a higher interest rate charged or if the Purchaser proves a lower interest rate charged.

## **9. Retention of Title**

9.1 The goods supplied shall remain our property until full payment has been made for all claims which are or will be due to us under the business relation with the purchaser or, in the event of payment by check or letter of exchange, until payment thereof. In the event that the current account method is used, the retained title shall be deemed to secure the balance due to us.

9.2 If the purchaser defaults in payment or if he otherwise fails to fulfil his obligation under the reservation of title, we can demand that the Purchaser returns the goods which are subject to reservation of title.

## **10. Resale Prohibited**

10.1 In the absence of an expressed written agreement to the contrary, all products are sold by ReliaTech GmbH for the exclusive use of the purchaser and are not to be resold.

## **11. General Contractual Bases**

11.1 If any of the foregoing provisions is invalid, this shall not affect the validity of the remaining provisions hereof. However, interpretation shall strive to establish a valid provision which approaches the original intentment of the valid provision.

11.2 Place for performance for our deliveries and for payment shall be Braunschweig.

11.3 Braunschweig shall have jurisdiction over any and all disputes (including actions arising from bills of exchange or checks) if the Purchaser is a businessman possessing full commercial capacity (Vollkaufmann). We shall, however, be entitled to seize the courts which are competent for the Purchaser's place of business and/or the Purchaser's responsible branch.

11.4 All legal relations and legal transactions between us and the Purchaser shall be governed exclusively by the laws of the Federal Republic of Germany. The application of the Hague Convention Relating to a uniform Law on the International Sale of Goods and The Hague Convention Relating to a Uniform Law on the formation of Contracts for the International Sale of Goods as well as the UN-Convention on Contracts for the International Sale of Goods shall be excluded.