

# Immunoassay Product Guide





*eBioscience is committed to developing and manufacturing high-quality, innovative reagents in an ISO certified facility. As a provider of more than 10,000 products, we empower our customers worldwide to obtain exceptional results by using reagents that offer a new standard of excellence in the areas of innovation, quality and value.*

# Table of Contents

<b>Immunoassay Product Guide</b>	<b>1</b>
<b>eBioscience Immunoassays Overview</b>	<b>3</b>
FlowCytomix™ Multiple Analyte Detection System . . .	3
Instant ELISA® Kits . . . . .	3
High Sensitivity ELISA Kits . . . . .	4
Platinum ELISA Kits . . . . .	4
Ready-SET-Go!® Sets . . . . .	4
ELISA Antibodies and Recombinant Proteins . . . . .	4
<b>1. FlowCytomix™</b>	<b>5</b>
FlowCytomix™ Multiple Analyte Detection System . . .	5
FlowCytomix™ Formats . . . . .	7
FlowCytomix™ Pro Software . . . . .	8
<b>2. Instant ELISA® Kits</b>	<b>11</b>
Add Sample. Subtract the Hassle. . . . .	11
<b>3. High Sensitivity ELISA Kits</b>	<b>14</b>
Low Abundance Target Analysis Made Easy. . . . .	14
<b>4. Platinum ELISA Kits</b>	<b>16</b>
Performance Above the Gold Standard . . . . .	16
<b>5. Ready-SET-Go!® ELISA Sets</b>	<b>21</b>
Affordable, easy-to-use ELISA pairs . . . . .	21
<b>6. ELISA Antibodies and Recombinant Protein Standards</b>	<b>25</b>
<b>7. Areas of Biology</b>	<b>26</b>
Immunoassays for Inflammation. . . . .	27
Immunoassays for Th17 Research . . . . .	30
Immunoassays for Tumor Biology . . . . .	32
Immunoassays for Apoptosis . . . . .	35



# Immunoassay Product Guide

eBioscience Immunoassays: High quality by design equals performance for you.

In 2009, eBioscience acquired the premier European provider of immunoassay products, Bender MedSystems. Known for their attention to detail, high performance and reliable quality, the addition of Bender MedSystems brand products to the eBioscience ELISA portfolio provides you with a complete offering of ELISA and Multiplexing kits with a reputation for:

- High sensitivity
- Reliable reproducibility
- Accurate results
- Ease-of-use
- Affordability

Whenever you see the "Q" symbol, you know you are using a product that meets exacting standards.

## eBioscience Immunoassays At-a-Glance

Bead-based and plate-based solutions for your research needs.

***Bead-Based  
Multiplexing***



**FlowCytomix™ Multiple  
Analyte Detection System**

***Comprehensive  
Validated Kits***



**Instant ELISA®**



**High Sensitivity ELISA**



**Platinum ELISA**

***Coat-It-Yourself  
Products***

**Ready-SET-Go!®**

**Capture & detection antibodies  
Recombinant protein standards**

# eBioscience Immunoassays Overview

## FlowCytomix™ Multiple Analyte Detection System

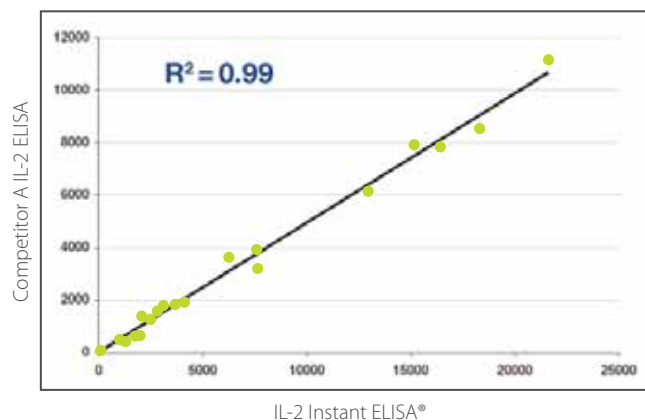
- Bead-based immunoassay for simultaneous detection of up to 20 analytes in a single sample.
- Provides flexibility to customize analyte-specific panels or use as a broad screening tool for biomarkers in unknown samples.
- Requires only 25 µl of sample. Suitable for serum, plasma or cell culture supernatants.
- Analyze by flow cytometry. Suitable for all systems equipped with 488 nm lasers and three fluorescence detectors.
- Completed assay samples can be retained for next day acquisition and analysis.

**FlowCytomix™**  
*For multiplexed  
screening and analysis  
of precious samples.*

## Instant ELISA® Kits

- 15 minute set-up time – just add your sample to start the assay.
- Utilize all 96-wells to analyze samples; highly compatible with automation to maximize workflow for busy labs.
- Reduced consumable costs – eliminates steps required for serial dilution of standards, and addition of antibody and detection reagents.
- Increased accuracy – Reduced handling means less room for error.
- CE-mark Instant ELISA® kits are also available. Full CE-mark product listing can be found at [www.bendermedsystems.com](http://www.bendermedsystems.com).

**Instant ELISA® Kits**  
*Ideal choice for labs requiring  
a streamlined ELISA system  
with maximum accuracy,  
reproducibility, and  
time savings.*



### IL-2 Instant ELISA®

IL-2 Instant ELISA® (cat. no. BMS221INST) shows a coefficient of determination of 0.99 compared with conventional IL-2 ELISA analyzing serum samples.

### **High Sensitivity ELISA Kits**

*Designed for labs who need optimal ELISA performance for targets that demand high-sensitivity.*

## **High Sensitivity ELISA Kits**

- Biotinyl-tyramide signal amplification technology detects < 1.0 pg/ml.
- Requires only 50 µl of sample for reproducible, accurate results from precious samples.
- Shorter incubation time than comparable ELISA kits.
- Includes pre-coated plates, ancillary reagents and a simple protocol.

### **Platinum ELISA Kits**

*Ideal for labs who need a comprehensively tested kit that requires no additional validation.*

## **Platinum ELISA Kits**

- Highly validated pre-coated ELISA kits, with simple protocols.
- Most comprehensive range of ELISA kits for Th17 research.
- Available for broad range of analyte targets for human, mouse, rat, monkey and pig.
- CE-mark Platinum ELISA kits are also available. Full CE-mark product listing can be found at [www.bendermedsystems.com](http://www.bendermedsystems.com).

### **Ready-SET-Go!® Sets**

*An economical solution for labs looking to maximize their research budget.*

## **Ready-SET-Go!® Sets**

- Optimized antibody pairs for ELISA plate coating, as well as TMB substrate and ancillary buffers, all in one convenient package.

## **ELISA Antibodies and Recombinant Proteins**

- Individual components to build your own immunoassays.
- Visit [www.eBioscience.com](http://www.eBioscience.com) and search "ELISA" for an expansive product listing.



# FlowCytomix™

- FlowCytomix™ Multiple Analyte Detection System
- FlowCytomix™ Formats
- FlowCytomix™ Pro Software

1



## FlowCytomix™ Multiple Analyte Detection System

### Bead-based multiplex immunoassay for the flow cytometer

Multiple analyte detection is an invaluable tool for the comprehensive study of biological systems, as they are comprised of networks of cytokines, chemokines, growth factors and related proteins. The FlowCytomix™ Multiple Analyte Detection System, developed by Bender MedSystems, is designed to simultaneously quantify up to 20 protein targets quickly and easily.

### Advantages of the FlowCytomix™ Multiple Analyte Detection System

- **Sample friendly** – requires only 25 µl of sample from serum, plasma, or cell culture supernatants.
- **Easy to customize** – choose from a menu of protein targets to create your own assay panels.
- **Flexible protocol** – adaptable for use with 96 well plates or individual tubes.
- **Free software** – no need to spend hundreds of dollars extra for data analysis software.
- **Broad usage** – can be used on most flow cytometers, including single laser instruments.

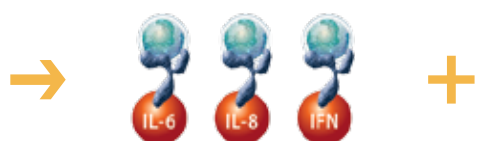
### How FlowCytomix™ Works

Kits contain fluorescent bead sets, each pre-coated with a unique antibody specificity. Within two bead size populations, A and B (4 µm & 5 µm), there are multiple bead subsets, differentiated by varying intensities of an internal fluorescent dye. The dye can be excited by an Argon, He-Ne, or UV laser, and emits at 690 nm (the far red spectrum), which is detected in the FL-3/FL-4 channel. The combination of the two different bead sizes and different internal dye intensities makes it possible to distinguish up to 20 bead sets in one fluorescent channel. Streptavidin-PE, which binds to the biotin conjugate, emits at 578 nm and is detected in the FL-2 channel, allowing the quantification of the analyte.

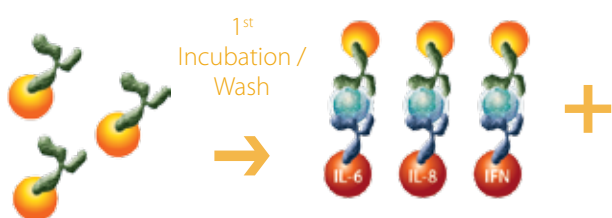
FlowCytomix™ bead-based assays follow the same principle as a sandwich immunoassay:



**Figure 1.** Antibody-coated beads are added and incubated with sample.



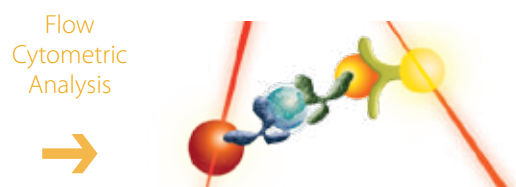
**Figure 2.** Target analytes in your sample are captured by specific antibodies on each bead set.



**Figure 3.** Biotin-conjugated, optimally paired antibodies specific for bound analytes are added.



**Figure 4.** Streptavidin-PE is added for detection of biotin-conjugated antibody.



**Figure 5.** Flow cytometry is used to differentiate bead populations according to bead size and fluorescent signature.

Calculation /  
FlowCytomix™ Pro  
Software



**Figure 6.** FlowCytomix™ Pro Software conveniently and easily calculates analyte concentrations in the samples.



# FlowCytomix™ Formats

## Multiplex Kits

Multiplex Kits are designed to focus on a specific group of functionally related proteins and contain all the necessary reagents needed for detection of multiple analyte combinations.

## Simplex Kits

Simplex Kits are individual bead sets for detection of one specific analyte, on any flow cytometer. Combine Simplex Kits to create your own customized analyte panels, or use them to extend our predesigned Multiplex Kits for maximum flexibility.

*Note: Basic Kits are needed in order to use the Simplex kits.*

## Basic Kits

Basic Kits contain buffers, plates and set-up beads required to utilize Simplex Kits.

### Configuration of the FlowCytomix™ System

Multiplex Kits Provide:	Simplex Kits Provide:	Basic Kits Provide:
Fluorescent bead sets – each set coated with a unique antibody specificity within a related group	Individual fluorescent bead set - coated with one unique antibody specificity	Streptavidin-PE
Recombinant protein standard panel – proteins corresponding to antibodies provided in the set	Recombinant protein standard	96 well filter plate
Biotin-conjugated detection antibodies	Biotin-conjugated detection antibody	Assay and dilution buffers
Streptavidin-PE		Set-up beads
96 well filter plate		
Assay and dilution buffers		
Set-up beads		

# FlowCytomix™ Pro Software

FlowCytomix™ Pro Software is free with your purchase of any Simplex or Multiplex kit. This software is an easy-to-use tool to analyze FlowCytomix™ assays in a minimum of time. In addition to the self-explanatory configuration of the software, each step is supported with detailed instructions included in the program, which can be accessed at any step during the experimental evaluation.

- Simple – Automatic updates keeps your software up-to-date.
- Flexible – Analyze your samples in single, duplicate or triplicate.
- Enhanced performance – Faster file loading and the ability to save individual settings and plots for improved analysis capabilities.



## Select Standard Samples

By default, the software uses single data points for determination of the standard curve, but it also allows switching to duplicate or triplicate determination. By clicking the "Browse" button, all standard samples are imported.



## Standard Curves

FlowCytomix™ Pro Software establishes standard curves, which already include all changes implemented by the operator during previous steps. You may evaluate and manually adjust all standard curves for later calculation of analyte concentrations.



**Download**

**FlowCytomix™ Pro Software**

at [www.bendermedsystems.com/software-download](http://www.bendermedsystems.com/software-download). Available for PC and Mac computers.

## Multiplex Kit Ordering Information

Description	Catalog Number
<b>Human</b>	
Th1/Th2 11plex	BMS810FF
Chemokines 6plex	BMS813FF
Cardiovascular 6plex	BMS811/2FF
Adhesion 6plex	BMS812FF
Obesity 9plex	BMS816/2FF
<b>Mouse</b>	
Th1/Th2 10plex	BMS820FF
Chemokines 6plex	BMS821FF
<b>Rat</b>	
Cytokines 6plex	BMS825/2FF

## Simplex Kit Ordering Information



Description	Catalog Number	Standard Range	Sensitivity
<b>Human</b>			
Adiponectin	BMS82032FF	0.1 - 50 ng/ml	0.06 ng/ml
sAPO-1 (Fas)	BMS80245FF	34 - 25,000 pg/ml	10.0 pg/ml
Caspase-3	BMS82012FF	82 - 60,000 pg/ml	20 pg/ml
Caspase-9	BMS82025FF	0.2 - 150 ng/ml	0.07 ng/ml
sCD30	BMS8240FF	0.3 - 250 ng/ml	5.1 pg/ml
sCD40L	BMS8239/2FF	55 - 40,000 pg/ml	23.4 pg/ml
CD44var (v6)	BMS80210FF	137 - 100,000 pg/ml	126.0 pg/ml
CRP	BMS8288FF	0.1 - 70 ng/ml	0.07 ng/ml
EGF	BMS82070FF	27 - 20,000 pg/ml	22.7 pg/ml
sE-selectin	BMS8205FF	4.0 - 3,000 ng/ml	1.2 ng/ml
G-CSF	BMS82001FF	34 - 25,000 pg/ml	3.4 pg/ml
HGF	BMS82069FF	206 - 150,000 pg/ml	52 pg/ml
sICAM-1	BMS80201FF	5.4 - 4,000 ng/ml	5.3 ng/ml
sICAM-3	BMS8218FF	11 - 8,000 ng/ml	4.8 ng/ml
IFN- $\alpha$	BMS8216FF	27 - 20,000 pg/ml	8.06 pg/ml
IFN- $\gamma$	BMS8228FF	27 - 20,000 pg/ml	1.6 pg/ml
IL-1 $\alpha$	BMS80243FF	1.4 - 1,000 pg/ml	0.5 pg/ml
IL-1 $\beta$	BMS8224FF	27 - 20,000 pg/ml	4.2 pg/ml
IL-2	BMS8221FF	27 - 20,000 pg/ml	16.4 pg/ml
IL-4	BMS8225FF	27 - 20,000 pg/ml	20.8 pg/ml
IL-5	BMS8278FF	27 - 20,000 pg/ml	1.6 pg/ml
IL-6	BMS8213FF	27 - 20,000 pg/ml	1.2 pg/ml
IL-8	BMS8204FF	13.7 - 10,000 pg/ml	0.5 pg/ml
IL-10	BMS8215FF	27 - 20,000 pg/ml	1.9 pg/ml
IL-12 (p70)	BMS8238FF	27 - 20,000 pg/ml	1.5 pg/ml
IL-13	BMS8231FF	27 - 20,000 pg/ml	4.5 pg/ml
IL-17A	BMS82017FF	13.7 - 10,000 pg/ml	2.5 pg/ml
IL-18	BMS8267FF	27 - 20,000 pg/ml	3.34 pg/ml
IL-22	BMS82047FF	110 - 80,000 pg/ml	43.3 pg/ml
IL-23	BMS82023FF	69 - 50,000 pg/ml	21.9 pg/ml
IP-10	BMS8284FF	17 - 12,500 pg/ml	6.0 pg/ml
Iso-Insulin	BMS82003FF	274 - 200,000 pg/ml	80 pg/ml
Leptin	BMS82039/2FF	0.3 - 250 ng/ml	0.05 ng/ml
MCP-1	BMS8281FF	41 - 30,000 pg/ml	2.2 pg/ml
MIG	BMS8285FF	6.9 - 5,000 pg/ml	0.9 pg/ml
MIP-1 $\alpha$	BMS82029FF	13.7 - 10,000 pg/ml	1.0 pg/ml
MIP-1 $\beta$	BMS82030FF	4.0 - 3,000 pg/ml	1.0 pg/ml
MMP-9	BMS82016FF	0.1 - 100 ng/ml	0.05 ng/ml
MMP-13	BMS82022FF	0.17 - 125 ng/ml	95 pg/ml
MPO	BMS82038FF	0.14 - 100 ng/ml	0.02 ng/ml
NGF	BMS82044FF	412 - 300,000 pg/ml	126.75 pg/ml
OPG	BMS82021FF	27 - 20,000 pg/ml	7.9 pg/ml
PAI-1	BMS82033FF	137 - 100,000 pg/ml	13.5 pg/ml
PDGF-BB	BMS82071FF	21 - 15,000 pg/ml	3.4 pg/ml
sPECAM-1	BMS8229FF	4.0 - 3,000 ng/ml	0.8 ng/ml
sP-selectin	BMS8219/2FF	2.8 - 2,000 ng/ml	1.2 ng/ml

 New products are launched regularly. **Discover more at [www.eBioscience.com](http://www.eBioscience.com).**



## Simplex Kit Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human (cont.)</b>			
RANTES	BMS8287FF	41 - 30,000 pg/ml	25 pg/ml
Resistin	BMS82040FF	55 - 40,000 pg/ml	1.7 pg/ml
TGF- $\beta$ 1	BMS8249FF	13.7 - 10,000 pg/ml	10.0 pg/ml
TIMP-1	BMS82018FF	137 - 100,000 pg/ml	28 pg/ml
TNF- $\alpha$	BMS8223FF	27 - 20,000 pg/ml	3.2 pg/ml
TNF- $\beta$	BMS8202FF	27 - 20,000 pg/ml	2.4 pg/ml
sTNF-R	BMS8203FF	0.14 - 100 ng/ml	0.08 ng/ml
t-PA	BMS8258FF	27 - 20,000 pg/ml	4.8 pg/ml
sVCAM-1	BMS8232/2FF	3.0 - 2,000 ng/ml	0.9 ng/ml
VEGF-A	BMS80277FF	27 - 20,000 pg/ml	7.2 pg/ml

<b>Mouse</b>			
CXCL1/KC	BMS86019FF	4.8 - 3,500 pg/ml	3.0 pg/ml
GM-CSF	BMS8612FF	27 - 20,000 pg/ml	10.9 pg/ml
IFN- $\gamma$	BMS8606/2FF	27 - 20,000 pg/ml	6.5 pg/ml
IL-1 $\alpha$	BMS8611FF	27 - 20,000 pg/ml	15.7 pg/ml
IL-1 $\beta$	BMS86002FF	69 - 50,000 pg/ml	34.3 pg/ml
IL-2	BMS8601FF	27 - 20,000 pg/ml	8.8 pg/ml
IL-4	BMS8613FF	27 - 20,000 pg/ml	0.7 pg/ml
IL-5	BMS8610FF	27 - 20,000 pg/ml	4.0 pg/ml
IL-6	BMS8603FF	27 - 20,000 pg/ml	2.2 pg/ml
IL-10	BMS8614/2FF	27 - 20,000 pg/ml	5.4 pg/ml
IL-12 (p70)	BMS86004FF	27 - 20,000 pg/ml	8.6 pg/ml
IL-13	BMS86015FF	27 - 20,000 pg/ml	9.3 pg/ml
IL-17	BMS86001FF	27 - 20,000 pg/ml	2.4 pg/ml
IL-18	BMS8618FF	412 - 300,000 pg/ml	116.9 pg/ml
IL-22	BMS86016FF	6.9 - 5,000 pg/ml	5.5 pg/ml
IL-23	BMS86017FF	55 - 40,000 pg/ml	14.5 pg/ml
IP-10	BMS86018FF	41 - 30,000 pg/ml	9.8 pg/ml
MCP-1	BMS86005FF	55 - 40,000 pg/ml	42.0 pg/ml
MCP-3	BMS86006FF	27 - 20,000 pg/ml	1.4 pg/ml
MIP-1 $\alpha$	BMS86013FF	27 - 20,000 pg/ml	1.8 pg/ml
MIP-1 $\beta$	BMS86014FF	27 - 20,000 pg/ml	14.9 pg/ml
RANTES	BMS86009FF	27 - 20,000 pg/ml	6.1 pg/ml
TGF- $\beta$ 1	BMS8608FF	13.7 - 10,000 pg/ml	10.0 pg/ml
TNF- $\alpha$	BMS8607/2FF	27 - 20,000 pg/ml	2.1 pg/ml

<b>Rat</b>			
GM-CSF	BMS8633FF	27 - 20,000 pg/ml	5.0 pg/ml
IFN- $\gamma$	BMS826/2FF	13.7 - 10,000 pg/ml	0.6 pg/ml
IL-1 $\alpha$	BMS8627FF	27 - 20,000 pg/ml	8.5 pg/ml
IL-4	BMS8628FF	3.0 - 2,000 pg/ml	0.3 pg/ml
MCP-1	BMS8631FF	27 - 20,000 pg/ml	0.5 pg/ml
TNF- $\alpha$	BMS8622FF	27 - 20,000 pg/ml	4.3 pg/ml

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# Instant ELISA® Kits

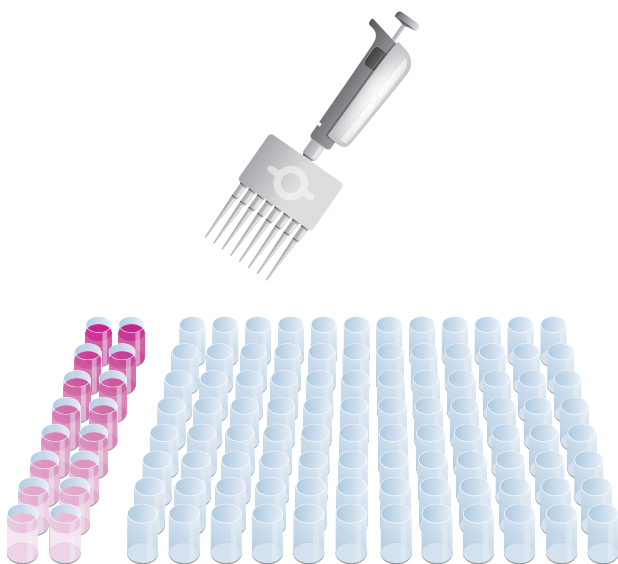
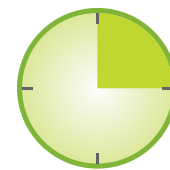
## Add sample. Subtract the hassle.

The Instant ELISA® technology, developed by Bender MedSystems, represents a major improvement of the established sandwich ELISA. The name 'Instant' says it all: the addition of sample is all that is needed to start the assay. There is no laborious preparation of reagents, serial dilutions of standards, or their sequential addition to the plate. In contrast to conventional ELISA protocols, the Instant ELISA® plate contains coating antibody and lyophilized detection antibody, streptavidin-HRP, and sample diluent. Additional wells containing the ready-to-use standard curve are provided separately.

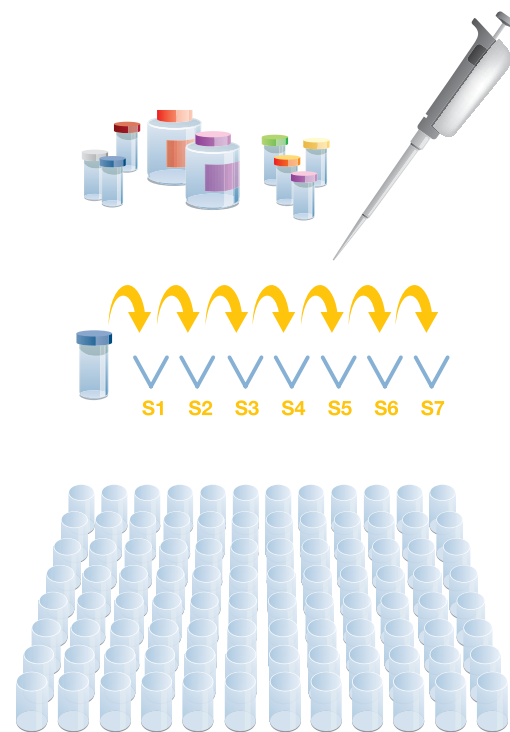


## Advantages of Instant ELISA®

- **Time saving** – only 15 minutes to set up. Simply add sample to begin the assay.
- **Better value** – analyze 96 single samples (48 samples in duplicate) per kit. Standard curve data is generated in parallel well strips provided.
- **Built-in accuracy** – no need to add antibody or do serial dilution of standards. Reduced handling means less error and more consistent results.



**Instant ELISA®**



**Conventional ELISA**



**QUALITY**  
DESIGN.  
PERFORMANCE.

## Instant ELISA® Kit Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human</b>			
BAFF	BMS2007INST	0.31 - 20.0 ng/ml	0.13 ng/ml
Caspase-3	BMS2012INST	0.16 - 10.0 ng/ml	0.12 ng/ml
sCD27	BMS286INST	0.63 - 20.0 U/ml	0.264 U/ml
sCD30	BMS240INST	1.6 - 100 ng/ml	0.33 ng/ml
sCD40L	BMS239INST	0.16 - 10.0 ng/ml	0.062 ng/ml
sCD44std	BMS209INST	0.063 - 4.0 ng/ml	0.016 ng/ml
sCD44var (v5)	BMS220INST	0.16 - 10.0 ng/ml	0.10 ng/ml
sCD44var (v6)	BMS210INST	0.16 - 10.0 ng/ml	0.06 ng/ml
sCD80 (B7-1)	BMS291INST	0.31 - 20.0 ng/ml	0.10 ng/ml
sCD86 (B7-2)	BMS292INST	0.8 - 50 ng/ml	0.14 ng/ml
CRP	BMS288INST	78 - 5,000 pg/ml	3.0 pg/ml
sE-selectin	BMS205INST	0.8 - 50 ng/ml	0.33 ng/ml
G-CSF	BMS2001INST	39 - 2,500 pg/ml	11.0 pg/ml
GM-CSF	BMS283INST	7.8 - 500 pg/ml	0.6 pg/ml
sHER-2	BMS207INST	0.16 - 10.0 ng/ml	0.06 ng/ml
sICAM-1	BMS201INST	1.6 - 100 ng/ml	2.17 ng/ml
sICAM-1	BMS241INST	0.16 - 10.0 ng/ml	0.06 ng/ml
sICAM-3	BMS218INST	0.8 - 50 ng/ml	0.38 ng/ml
IFN-α	BMS216INST	39 - 2,500 pg/ml	3.3 pg/ml
IFN-γ	BMS228INST	1.6 - 100 pg/ml	0.66 pg/ml
IL-1β	BMS224INST	7.8 - 500 pg/ml	0.7 pg/ml
IL-2	BMS221INST	19 - 1,200 pg/ml	2.3 pg/ml
sIL-2R	BMS212INST	0.31 - 20.0 ng/ml	0.21 ng/ml
IL-4	BMS225INST	7.8 - 500 pg/ml	0.6 pg/ml
IL-5	BMS278INST	7.8 - 500 pg/ml	1.45 pg/ml
IL-6	BMS213INST	1.6 - 100 pg/ml	0.92 pg/ml
sIL-6R	BMS214INST	0.08 - 5.0 ng/ml	0.01 ng/ml
IL-7	BMS237INST	15.6 - 1,000 pg/ml	9.5 pg/ml
IL-8	BMS204/3INST	15.6 - 1,000 pg/ml	1.3 pg/ml
IL-10	BMS215INST	3.2 - 200 pg/ml	0.66 pg/ml
IL-13	BMS231INST	3.2 - 200 pg/ml	0.99 pg/ml
IL-18	BMS267INST	78 - 5,000 pg/ml	9.2 pg/ml
IP-10	BMS284INST	3.2 - 200 pg/ml	1.0 pg/ml
Iso-Insulin	BMS2003INST	31.3 - 2,000 pg/ml	16.6 pg/ml
Leptin	BMS2039INST	63 - 4,000 pg/ml	20.0 pg/ml
sL-selectin	BMS206INST	0.39 - 25.0 ng/ml	0.19 ng/ml
MCP-1	BMS281INST	15.6 - 1,000 pg/ml	2.3 pg/ml
MIG	BMS285INST	31.3 - 2,000 pg/ml	4.0 pg/ml
MIP-1α	BMS2029INST	15.6 - 1,000 pg/ml	6.0 pg/ml
MIP-1β	BMS2030INST	7.8 - 500 pg/ml	3.0 pg/ml
MMP-3	BMS2014/2INST	0.39 - 25 ng/ml	0.3 ng/ml
MPO	BMS2038INST	0.16 - 10.0 ng/ml	0.03 ng/ml
OPG	BMS2021INST	15.6 - 1,000 pg/ml	2.5 pg/ml
Osteocalcin	BMS2020INST	1.2 - 75 ng/ml	0.2 ng/ml
sPECAM-1	BMS229INST	0.48 - 30.0 ng/ml	0.06 ng/ml
RANTES	BMS287/2INST	31.3 - 2,000 pg/ml	4.2 pg/ml



New products are launched regularly. Discover more at [www.eBioscience.com](http://www.eBioscience.com).



## Instant ELISA® Kit Ordering Information



Description	Catalog Number	Standard Range	Sensitivity
<b>Human (cont.)</b>			
TGF-β1	BMS249/2INST	63 - 4,000 pg/ml	15 pg/ml
TNF-α	BMS223INST	7.8 - 500 pg/ml	1.65 pg/ml
TNF-β	BMS202INST	15.6 - 1,000 pg/ml	4.6 pg/ml
sTNF-R	BMS203INST	0.08 - 5.0 ng/ml	53 pg/ml
TWEAK	BMS2006INST	15.6 - 1,000 pg/ml	9.6 pg/ml
sVE-cadherin	BMS253INST	0.16 - 10.0 ng/ml	0.05 ng/ml

<b>Mouse</b>			
IFN-γ	BMS606INST	15.6 - 1,000 pg/ml	4.0 pg/ml
IL-1α	BMS611INST	7.8 - 500 pg/ml	3.1 pg/ml
IL-1β	BMS6002INST	3.9 - 250 pg/ml	3.0 pg/ml
IL-4	BMS613INST	3.9 - 250 pg/ml	0.6 pg/ml
IL-10	BMS614/2INST	31.3 - 2,000 pg/ml	3.5 pg/ml
MCP-3	BMS6006INST	15.6 - 1,000 pg/ml	2.6 pg/ml
MCP-5	BMS6007INST	15.6 - 1,000 pg/ml	2.3 pg/ml
RANTES	BMS6009INST	7.8 - 500 pg/ml	1.2 pg/ml
TNF-α	BMS607/2INST	31.3 - 2,000 pg/ml	4.0 pg/ml
sTNF-RII	BMS6003INST	7.8 - 500 pg/ml	0.6 pg/ml

<b>Rat</b>			
MCP-1	BMS631INST	7.8 - 500 pg/ml	4.7 pg/ml

<b>Monkey</b>			
sE-selectin	BMS649INST	0.9 - 60 U/ml	0.39 U/ml
sICAM-1	BMS648INST	1.6 - 100 U/ml	1.05 U/ml
IL-6	BMS641INST	1.9 - 120 U/ml	1.5 U/ml
IL-8	BMS640/3INST	19.5 - 1,250 U/ml	1.5 U/ml
IL-10	BMS642INST	3.9 - 250 U/ml	1.32 U/ml
sPECAM-1	BMS651INST	0.48 - 30.0 U/ml	0.06 U/ml
sTNF-RI	BMS653INST	0.09 - 6.0 U/ml	0.05 U/ml

CE-mark Instant ELISA® kit product listing can be found at [www.bendermedsystems.com](http://www.bendermedsystems.com)



# High Sensitivity ELISA Kits

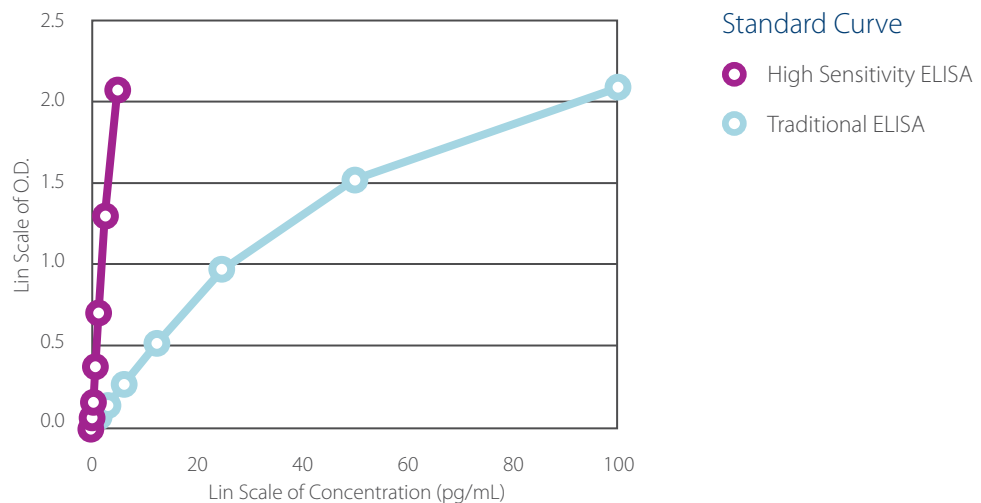


## Low Abundance Target Analysis Made Easy

High Sensitivity ELISAs enable the accurate quantification of low concentrations of protein and target analytes from serum, plasma or cell culture sample.

### Advantages of High Sensitivity ELISAs

- **Sensitive** – amplify low cytokine concentrations < 1.0 pg/ml for reliable quantification.
- **Maximizes resources** – 50 µl sample volume required. Ideal for limited sample resources.
- **Easy-to-use** – straight-forward protocol with all reagents included.



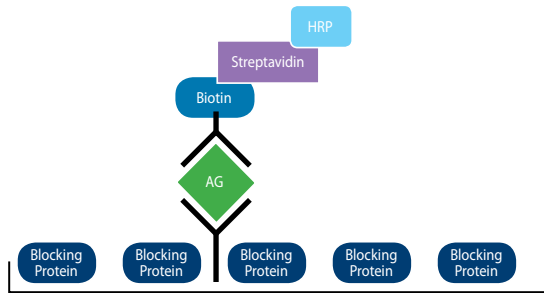
### High Sensitivity Kit Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human</b>			
sCD40L	BMS293*	0.08 - 5.0 ng/ml	0.005 ng/ml
sICAM-1	BMS241*	0.63 - 10.0 ng/ml	0.33 ng/ml
IFN-γ	BMS228HS	0.16 - 10.0 pg/ml	0.06 pg/ml
IL-1β	BMS224HS	0.16 - 10.0 pg/ml	0.05 pg/ml
IL-2	BMS221HS	0.9 - 60.0 pg/ml	0.4 pg/ml
IL-4	BMS225HS	0.25 - 16.0 pg/ml	0.1 pg/ml
IL-6	BMS213HS	0.08 - 5.0 pg/ml	0.02 pg/ml
IL-10	BMS215HS	0.39 - 25.0 pg/ml	0.05 pg/ml
TNF-α	BMS223HS	0.31 - 20.0 pg/ml	0.13 pg/ml
<b>Mouse</b>			
IFN-γ	88-8344*	0.7 - 100.0 pg/ml	0.7 pg/ml

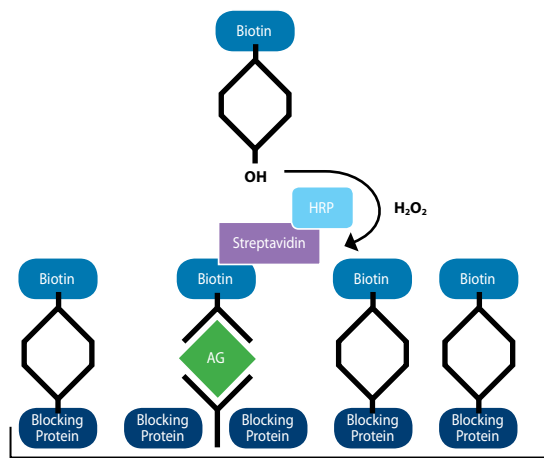
\* These High Sensitivity Kits are not based on biotinyl-tyramide amplification technology.

New products are launched regularly. Discover more at [www.eBioscience.com](http://www.eBioscience.com).

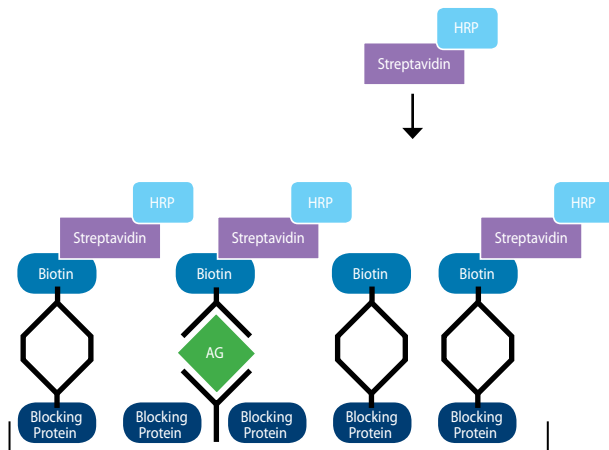
# The High Sensitivity ELISA Protocol



**Figure 1.** Assay set up is similar to a conventional ELISA, using Biotin-streptavidin-HRP, but includes the addition of an amplification reagent I, which contains biotinyl-tyramide.



**Figure 2.** Horseradish peroxidase (HRP) converts multiple biotinyl-tyramide molecules into highly reactive derivatives (free radicals). These bind covalently to any protein in the well, e.g. blocking proteins. Thus the amount of reacted biotinyl-tyramide is proportional to the amount of HRP in the well. Excess biotinyl-tyramide is washed out.



**Figure 3.** Amplification reagent II contains Streptavidin-HRP, which binds to the biotin sites created during the biotinyl-tyramide reaction, thus multiplying the HRP molecules available at the surface for the substrate reaction.

# Platinum ELISA Kits



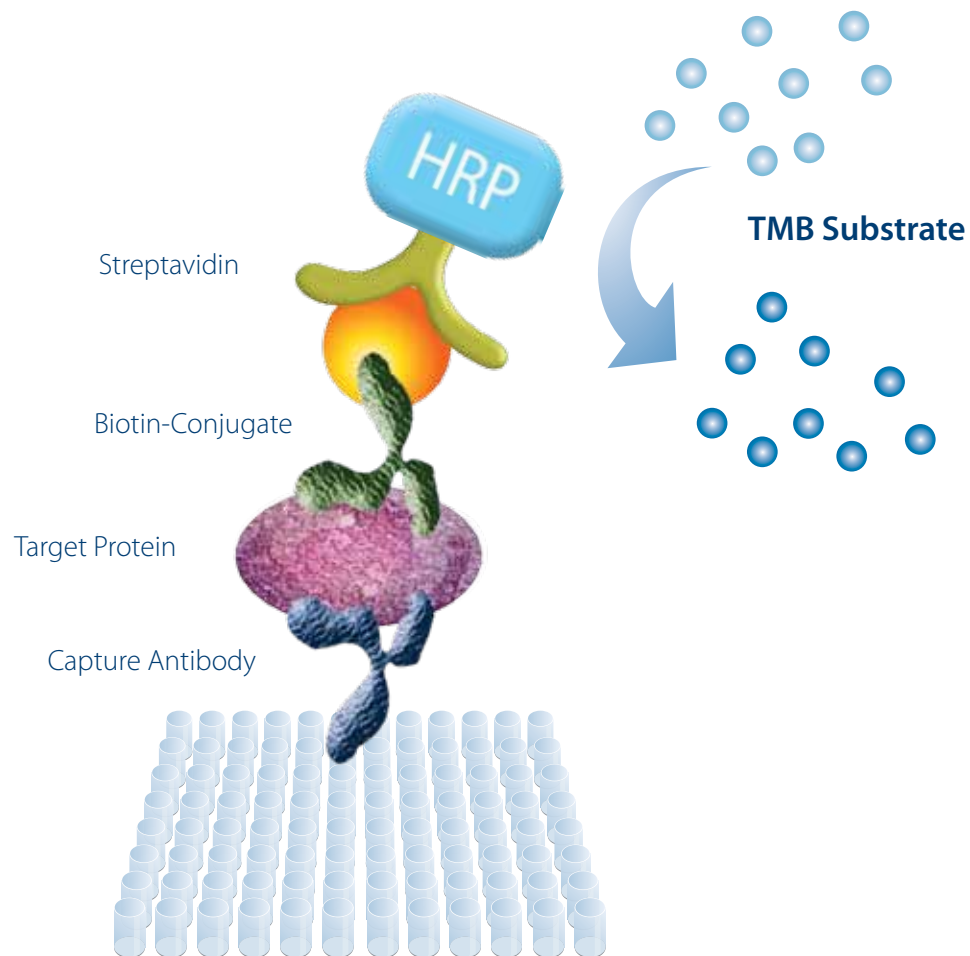
## Performance above the Gold Standard

eBioscience Platinum ELISA kits offer over 150 quality-validated kits for human, mouse, rat, monkey, and pig target analysis. Kits and reagents are available for evaluation of cytokines, chemokines, and numerous other soluble or intracellular molecules. Stringent in-house development, manufacture and quality-validation processes ensure the highest possible product performance.

A complete, validated solution right out of the box.

## Advantages of Platinum ELISA

- **Quality performance** – designed to meet demanding standards.
- **Validated** – tested for accurate results with relevant serum, plasma or cell culture supernatants.
- **Highly reproducible** – stringent QC criteria ensure lot-to-lot consistency.
- **Excellent sensitivity.**



## Platinum ELISA Kit Ordering Information



Description	Catalog Number	Standard Range	Sensitivity
<b>Human</b>			
s90K (Mac-2BP)	BMS234	12.5 - 200 ng/ml	0.92 ng/ml
Annexin V	BMS252	0.8 - 50 ng/ml	0.33 ng/ml
anti-Annexin V	BMS247	6.25 - 400 ng/ml	1.18 ng/ml
anti-IFN- $\alpha$	BMS217	3.2 - 200 ng/ml	1.38 ng/ml
sAPO-1 (Fas)	BMS245	15.6 - 1,000 pg/ml	13.2 pg/ml
APRIL	BMS2008	0.8 - 50 ng/ml	0.4 ng/ml
Bcl-2	BMS244/3	0.50 - 32.0 ng/ml	0.5 ng/ml
Caspase-8 (FLICE)	BMS2024	0.16 - 10.0 ng/ml	0.10 ng/ml
Caspase-9	BMS2025	1.6 - 100 ng/ml	0.4 ng/ml
Cathepsin L	BMS257	3.1 - 50 ng/ml	1.71 ng/ml
sCD134 (OX40)	BMS296	78 - 5,000 pg/ml	1.8 pg/ml
sCD137 (4-1BB)	BMS289	0.8 - 50 ng/ml	0.2 ng/ml
sCD152 (CTLA-4)	BMS276	0.16 - 10.0 ng/ml	0.13 ng/ml
sCD23	BMS227/2	12.5 - 400 U/ml	6.8 U/ml
sCD26	BMS235	15.6 - 500 ng/ml	7.26 ng/ml
sCD28	BMS290	0.8 - 50 ng/ml	0.18 ng/ml
sCD30	BMS240	1.6 - 100 ng/ml	0.33 ng/ml
sCD30L	BMS298	1.6 - 100 U/ml	0.5 ng/ml
sCD40	BMS265	7.8 - 500 pg/ml	6.92 pg/ml
sCD40L	BMS239	0.16 - 10.0 ng/ml	0.062 ng/ml
sCD44std	BMS209/2	0.12 - 4.0 ng/ml	0.015 ng/ml
sCD44var (v5)	BMS220	0.32 - 10.0 ng/ml	0.14 ng/ml
sCD44var (v6)	BMS210	0.32 - 10.0 ng/ml	0.05 ng/ml
sCD8	BMS226/2	31.3 - 2,000 U/ml	6.9 U/ml
Cu/ZnSOD	BMS222	0.08 - 5.0 ng/ml	0.04 ng/ml
Cytochrome c	BMS263	0.08 - 5.0 ng/ml	0.05 ng/ml
DcR3	BMS2031	78 - 5,000 pg/ml	7.0 pg/ml
sEGF-R (active)	BMS270	0.8 - 5.0 fmol/ml	0.05 fmol/ml
Erythropoietin (EPO)	BMS2002	1.6 - 100 mIU/ml	0.4 mIU/ml
sE-selectin	BMS205	0.8 - 50 ng/ml	0.33 ng/ml
sFas Ligand	BMS260/2	0.16 - 10.0 ng/ml	0.07 ng/ml
Fibronectin	BMS2028	0.31 - 20.0 ng/ml	0.1 ng/ml
Galectin-3	BMS279/2	0.39 - 25.0 ng/ml	0.12 ng/ml
GM-CSF	BMS283	7.8 - 500 pg/ml	2.9 pg/ml
Granzyme A	BMS2026	0.8 - 600 pg/ml	0.4 pg/ml
Granzyme B	BMS2027	0.66 - 480 pg/ml	0.2 pg/ml
sHER-2	BMS207	0.16 - 10.0 ng/ml	0.06 ng/ml
sICAM-1	BMS201	6.25 - 100 ng/ml	2.17 ng/ml
sICAM-2	BMS236	0.75 - 24.0 U/ml	0.30 U/ml
sICAM-3	BMS218	0.8 - 50 ng/ml	0.38 ng/ml
IFN- $\alpha$	BMS216	7.8 - 500 pg/ml	3.16 pg/ml
IFN- $\gamma$	BMS228	1.6 - 100 pg/ml	0.99 pg/ml
IFN- $\omega$	BMS233	4.7 - 300 pg/ml	1.51 pg/ml
IL-1 $\alpha$	BMS243/2	1.6 - 100 pg/ml	1.6 pg/ml

 New products are launched regularly. **Discover more at [www.eBioscience.com](http://www.eBioscience.com).**



## Platinum ELISA Kit Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human (cont.)</b>			
IL-1 $\beta$	BMS224/2	3.9 - 250 pg/ml	0.32 pg/ml
IL-2	BMS221	19 - 1,200 pg/ml	9.9 pg/ml
sIL-2R	BMS212/2	0.31 - 20.0 ng/ml	0.27 ng/ml
IL-4	BMS225/2	7.8 - 500 pg/ml	1.3 pg/ml
IL-5	BMS278	7.8 - 500 pg/ml	1.45 pg/ml
IL-6	BMS213/2	1.6 - 100 pg/ml	0.92 pg/ml
sIL-6R	BMS214	0.08 - 5.0 ng/ml	0.01 ng/ml
IL-8	BMS204/3	15.6 - 1,000 pg/ml	2.0 pg/ml
IL-10	BMS215/2	3.2 - 200 pg/ml	0.99 pg/ml
IL-12 (p70)	BMS238	3.2 - 200 pg/ml	2.1 pg/ml
IL-12/IL-23 (p40)	BMS2013	31.3 - 2,000 pg/ml	< 10 pg/ml
IL-13	BMS231/3	1.6 - 100 pg/ml	0.73 pg/ml
IL-17A	BMS2017	1.6 - 100 pg/ml	0.5 pg/ml
IL-17F	BMS2037	31.3 - 2,000 pg/ml	15.5 pg/ml
IL-18	BMS267/2	78 - 5,000 pg/ml	9.2 pg/ml
IL-21	BMS2043	78 - 5,000 pg/ml	20.0 pg/ml
IL-22	BMS2047	31.3 - 2,000 pg/ml	5.0 pg/ml
IL-23 (p19/p40)	88-7239	15 - 2,000 pg/ml	15.0 pg/ml
LIF	BMS242	3.2 - 200 pg/ml	0.66 pg/ml
sLIF-R (gp190)	BMS246	0.08 - 5.0 ng/ml	0.052 ng/ml
sL-selectin	BMS206	0.39 - 25.0 ng/ml	0.19 ng/ml
MCP-1	BMS281	15.6 - 1,000 pg/ml	2.3 pg/ml
MMP-13	BMS2022	0.31 - 20.0 ng/ml	0.18 ng/ml
MMP-9	BMS2016/2	0.23 - 15.0 ng/ml	0.05 ng/ml
p53	BMS256	0.8 - 50 U/ml	0.33 U/ml
PAI-1	BMS2033	78 - 5,000 pg/ml	29 pg/ml
sPECAM-1	BMS229	0.48 - 30.0 ng/ml	0.06 ng/ml
PMN-Elastase	BMS269	0.16 - 10.0 ng/ml	1.98 ng/ml
sP-selectin	BMS219/4	0.63 - 40.0 ng/ml	0.20 ng/ml
sPSGL-1	BMS255	1.6 - 50 U/ml	0.99 U/ml
Resistin	BMS2040	31.3 - 2,000 pg/ml	3.1 pg/ml
TGF- $\beta$ 1	BMS249/3	31.3 - 200 pg/ml	9.0 pg/ml
TGF- $\beta$ 2	BMS254	31.3 - 1,000 pg/ml	6.6 pg/ml
TIE-2	BMS2042	0.16 - 10.0 ng/ml	0.03 ng/ml
TIMP-1	BMS2018	39 - 2,500 pg/ml	10.0 pg/ml
TNF- $\alpha$	BMS2034	23 - 1,500 pg/ml	5.0 pg/ml
TNF- $\beta$	BMS202	7.8 - 1,000 pg/ml	4.6 pg/ml
sTNF-R (60kDa)	BMS203	0.08 - 5.0 ng/ml	53 pg/ml
sTNF-R (80kDa)	BMS211	0.16 - 10.0 ng/ml	0.09 ng/ml
t-PA	BMS258/2	15.6 - 1,000 pg/ml	6.4 pg/ml
TRAIL	BMS2004	15.6 - 1,000 pg/ml	5.4 pg/ml
sVAP-1	BMS259	31.3 - 2,000 pg/ml	19 pg/ml
sVCAM-1	BMS232	3.2 - 100 ng/ml	0.59 ng/ml
sVE-cadherin	BMS253	0.16 - 10.0 ng/ml	0.15 ng/ml
VEGF-A	BMS277/2	15.6 - 1,000 pg/ml	7.9 pg/ml
VEGF-C	BMS297/2	0.23 - 15.0 ng/ml	0.057 ng/ml



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## Platinum ELISA Kit Ordering Information



Description	Catalog Number	Standard Range	Sensitivity
<b>Human (cont.)</b>			
sVEGF-R1	BMS268/2	0.16 - 10.0 ng/ml	0.06 ng/ml
VEGF-R2 (KDR)	BMS2019	78 - 5,000 pg/ml	7.0 pg/ml
VEGF-R3 (FLT-4)	BMS2064	0.6 - 40.0 ng/ml	0.03 ng/ml

<b>Mouse</b>			
sCD40L	BMS6010	0.31 - 20.0 ng/ml	0.14 ng/ml
Eotaxin	BMS6008	31.3 - 2,000 pg/ml	3.6 pg/ml
GM-CSF	BMS612	3.9 - 250 pg/ml	1.98 pg/ml
IFN- $\gamma$	BMS606	15.6 - 1,000 pg/ml	5.3 pg/ml
IL-1 $\alpha$	BMS611	7.8 - 500 pg/ml	3.9 pg/ml
IL-1 $\beta$	BMS6002	7.8 - 500 pg/ml	1.2 pg/ml
IL-2	BMS601	15.6 - 1,000 pg/ml	5.3 pg/ml
IL-4	BMS613	3.9 - 250 pg/ml	1.98 pg/ml
IL-5	BMS610	7.8 - 500 pg/ml	3.3 pg/ml
IL-6	BMS603	31.3 - 2,000 pg/ml	7.92 pg/ml
IL-10	BMS614/2	15.6 - 1,000 pg/ml	5.0 pg/ml
IL-12 (p40/p70)	BMS616	31.3 - 2,000 pg/ml	1.9 pg/ml
IL-12 (p70)	BMS6004	15.6 - 1,000 pg/ml	10.0 pg/ml
IL-12/IL-23 (p40)	88-7922	4 - 500 pg/ml	4 pg/ml
IL-13	BMS6015	7.8 - 500 pg/ml	2.8 pg/ml
IL-17	BMS6001	7.8 - 500 pg/ml	1.6 pg/ml
IL-17A	88-7971	4 - 500 pg/ml	4 pg/ml
IL-18	BMS618/2	31.3 - 2,000 pg/ml	10.0 pg/ml
IL-22	BMS6016	7.8 - 500 pg/ml	1.6 pg/ml
IL-23	BMS6017	31.3 - 2,000 pg/ml	16.0 pg/ml
IL-23 (p19/p40)	88-7923	8 - 1000 pg/ml	8 pg/ml
IP-10	BMS6018	7.8 - 500 pg/ml	6.5 pg/ml
MCP-1	BMS6005	15.6 - 1,000 pg/ml	2.2 pg/ml
TGF- $\beta$ 1	BMS608/3	31.3 - 2,000 pg/ml	9.0 pg/ml
TNF- $\alpha$	BMS607/2	15.6 - 1,000 pg/ml	3.0 pg/ml
sVEGF-A	BMS619/2	62.5 - 4,000 pg/ml	20.0 pg/ml

<b>Rat</b>			
GM-CSF	BMS633	7.8 - 500 pg/ml	3.5 pg/ml
IFN- $\gamma$	BMS621	31.3 - 2,000 pg/ml	9.9 pg/ml
IL-2	BMS634	31.3 - 2,000 pg/ml	9.6 pg/ml
IL-4	BMS628	1.6 - 100 pg/ml	0.2 pg/ml
IL-6	BMS625	31.3 - 2,000 pg/ml	12.0 pg/ml
IL-10	BMS629	15.6 - 1,000 pg/ml	1.5 pg/ml
IL-1 $\alpha$	BMS627	15.6 - 1,000 pg/ml	4.1 pg/ml
IL-1 $\beta$	BMS630	31.3 - 2,000 pg/ml	4.4 pg/ml
TGF- $\beta$ 1	BMS623/2	0.48 - 30.0 ng/ml	48 pg/ml
TNF- $\alpha$	BMS622	39 - 2,500 pg/ml	11.2 pg/ml
VEGF-C	BMS626/2	47.0 - 3,000 pg/ml	27.0 pg/ml

<b>Monkey</b>			
E-selectin	BMS649	0.9 - 60 U/ml	0.39 U/ml
ICAM-1	BMS648	6.25 - 100 U/ml	1.05 U/ml





## Platinum ELISA Kit Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Monkey (cont.)</b>			
IL-1 $\beta$	BMS645	6.25 - 400 U/ml	0.66 U/ml
IL-2	BMS643	19.5 - 1,250 U/ml	9.9 U/ml
IL-6	BMS641/2	1.9 - 120 U/ml	1.25 U/ml
IL-8	BMS640/3	19.5 - 1,250 U/ml	2.5 U/ml
IL-10	BMS642/2	3.9 - 250 U/ml	1.32 U/ml
IL-12 (p70)	BMS646	3.9 - 250 U/ml	1.6 U/ml
sPECAM-1	BMS651	0.48 - 30.0 U/ml	0.06 U/ml
sP-selectin	BMS650/4	0.8 - 50 U/ml	1.3 U/ml
TNF- $\alpha$ total	BMS654	28.1 - 1,800 U/ml	6.0 U/ml
sTNF-RI	BMS653	0.09 - 6.0 U/ml	0.05 U/ml
sVE-cadherin	BMS652	0.19 - 12.5 U/ml	0.10 U/ml

<b>Pig</b>			
IFN- $\gamma$	BMS671	31.3 - 2,000 pg/ml	3.3 pg/ml
IL-18	BMS672	39 - 2,500 pg/ml	23.1 pg/ml

CE-mark Platinum ELISA kit product listing can be found at [www.bendermedsystems.com](http://www.bendermedsystems.com)

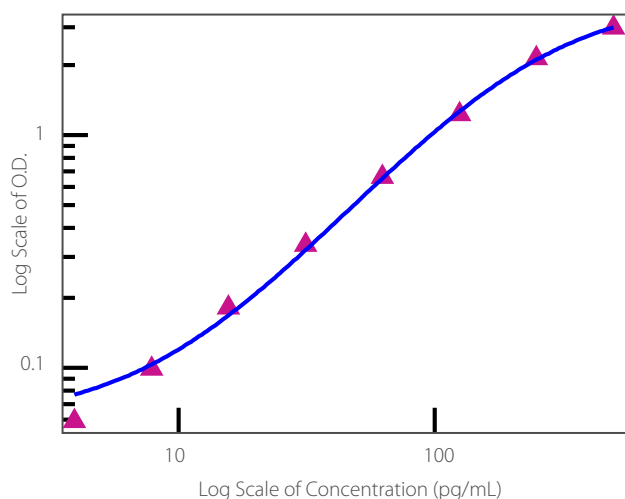


## Affordable and easy-to-use

Ready-SET-Go!<sup>®</sup> ELISA Sets contain matched antibody pairs along with the necessary reagents to perform your ELISAs. These sets are ideal for the experienced ELISA user. They do not come with pre-coated plates, allowing you to modify the protocol for your specific needs.

## Advantages of Ready-SET-Go!<sup>®</sup> Sets

- **Flexible** – available in variety of package sizes, from 2, 10 or 20 plates to meet the demands of your research.
- **Complete and easy-to-use** – sets include optimized antibody pairs, and unlike other ELISA Sets, eBioscience Ready-SET-Go!<sup>®</sup> Sets also include recombinant protein standards, TMB substrate, and other essential reagents to perform your assay.
- **Affordable** – priced to accommodate the most demanding budgets, maximizing your research dollars.



Mouse IL-15/IL-15R Complex Ready-SET-Go!<sup>®</sup> Set  
*Recombinant Standard Curve*

## Ready-SET-Go!® Sets Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human</b>			
Annexin V	BMS252MST*	0.8 - 50 ng/ml	
anti-Annexin V	BMS247MST*	6.25 - 400 ng/ml	
APO-1 (Fas)	BMS245MST*	15.6 - 1,000 pg/ml	
Bcl-2	BMS244/3MST*	0.50 - 32.0 ng/ml	
Caspase-8 (FLICE)	BMS2024MST*	0.16 - 10.0 ng/ml	
Caspase-9	BMS2025MST*	1.6 - 100 ng/ml	
CD28	BMS290MST*	0.8 - 50 ng/ml	
CD30	BMS240MST*	1.6 - 100 ng/ml	
CD40L	BMS239MST*	0.16 - 10.0 ng/ml	
CD44std	BMS209/2MST*	0.12 - 4.0 ng/ml	
CD44var (v5)	BMS220MST*	0.32 - 10.0 ng/ml	
CD134 (OX40)	BMS296MST*	78 - 5,000 pg/ml	
CD152 (CTLA-4)	BMS276MST*	0.16 - 10.0 ng/ml	
CCL2 (MCP-1)	88-7399	8 - 1000 pg/ml	8 pg/ml
Cu/ZnSOD	BMS222MST*	0.08 - 5.0 ng/ml	
E-selectin	BMS205MST*	0.8 - 50 ng/ml	
GM-CSF	88-7339	8-1000 pg/ml	8 pg/ml
ICAM-1	BMS201MST*	6.25 - 100 ng/ml	
IFN- $\alpha$ 1	88-7389	16-2000 pg/ml	16 pg/ml
IFN- $\gamma$	88-7316	4 - 500 pg/ml	4 pg/ml
IFN- $\omega$	BMS233MST*	4.7 - 300 pg/ml	
IL-1 $\beta$	88-7010	4 - 500 pg/ml	4 pg/ml
IL-2	88-7026	4 - 500 pg/ml	4 pg/ml
IL-2R	BMS212/2MST*	0.31 - 20.0 ng/ml	
IL-4	88-7046	2 - 200 pg/ml	2 pg/ml
IL-5	88-7056	4 - 500 pg/ml	4 pg/ml
IL-6	88-7066	2 - 200 pg/ml	2 pg/ml
IL-6R	BMS214MST*	0.08 - 5.0 ng/ml	
IL-8	88-7087	4 - 500 pg/ml	4 pg/ml
IL-9	88-7958	1-100 pg/ml	1 pg/ml
IL-10	88-7106	2 - 200 pg/ml	2 pg/ml
IL-12 (p70)	88-7126	4 - 500 pg/ml	4 pg/ml
IL-13	88-7439	4 pg/ml - 500 pg/ml	4 pg/ml
IL-15	88-7158	8 - 1000 pg/ml	8 pg/ml
IL-17A	88-7176	4 - 500 pg/ml	4 pg/ml
IL-17AF	88-7117	30-4000 pg/ml	30 pg/ml
IL-17F	88-7478	32-4000 pg/ml	32 pg/ml
IL-18	BMS267/2MST*	78 - 5,000 pg/ml	
IL-21	88-7216	31 - 4000 pg/ml	31 pg/ml
IL-22	88-7522	8-1000 pg/ml	8 pg/ml
IL-23 (p19/p40)	88-7239	15-2000 pg/ml	15 pg/ml
IL-29	88-7296	8 - 1000 pg/ml	8 pg/ml
LIF-R (gp190)	BMS242MST*	0.08 - 5.0 ng/ml	

\*These module sets come supplied with optimized antibody pairs and lyophilized standards. Catalog number BMS412 or BMS414 can be purchased separately for all buffers and solutions.



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## Ready-SET-Go!® Sets Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Human (cont.)</b>			
PAI-1	BMS2033MST*	78 - 5,000 pg/ml	
PECAM-1	BMS229MST*	0.48 - 30.0 ng/ml	
TGF-β1	88-7344	60 - 8000 pg/ml	60 pg/ml
Th1/Th2 Panel	88-7799	various	
TIE-2	BMS2042MST*	0.16 - 10.0 ng/ml	
TNF-α	88-7346	4 - 500 pg/ml	4 pg/ml
TNF-β	88-7345	8 - 1000 pg/ml	8 pg/ml
TSLP	88-7497	8 - 1000 pg/ml	8 pg/ml
VAP-1	BMS259MST*	31.3 - 2,000 pg/ml	
VEGF-R1	BMS268/2MST*	0.16 - 10.0 ng/ml	
VEGF-R2 (KDR)	BMS2019MST*	78 - 5,000 pg/ml	
VEGF-R3 (FLT-4)	BMS2064MST*	0.6 - 40.0 ng/ml	

<b>Mouse</b>			
CCL2 (MCP-1)	88-7391	15 - 2000 pg/ml	15 pg/ml
CD40L	BMS6010MST*	0.31 - 20.0 ng/ml	
Eotaxin	BMS6008MST*	31.3 - 2,000 pg/ml	
GM-CSF	88-7334	4 - 500 pg/ml	4 pg/ml
Granzyme B	88-8022	40 - 5000 pg/ml	40 pg/ml
IFN-γ	88-7314	15 - 2000	15 pg/ml
IFN-γ (High Sensitivity)	88-8314	0.7 - 100 pg/ml	0.7 pg/ml
IL-1α	BMS611MST*	7.8 - 500 pg/ml	
IL-1β	88-7013	8 - 1000 pg/ml	8 pg/ml
IL-2	88-7024	2 - 200 pg/ml	2 pg/ml
IL-4	88-7044	4 - 500 pg/ml	4 pg/ml
IL-5	88-7054	4 - 500 pg/ml	4 pg/ml
IL-6	88-7064	4 - 500 pg/ml	4 pg/ml
IL-9	88-6952	32-4000 pg/ml	32 pg/ml
IL-10	88-7104	15 - 2000 pg/ml	15 pg/ml
IL-12/IL-23 (total p40)	88-7120	8 - 1000 pg/ml	8 pg/ml
IL-12 (p70)	88-7121	15 - 2000 pg/ml	15 pg/ml
IL-13	88-7137	4 - 500 pg/ml	4 pg/ml
IL-15	88-7150	62 - 8000 pg/ml	62 pg/ml
IL-15/IL-15R	88-7215	4 - 500 pg/ml	4 pg/ml
IL-17A	88-7374	8 - 1000 pg/ml	8 pg/ml
IL-17AF	88-7272	30 - 4000	30 pg/ml
IL-17F	88-7472	15 - 2000 pg/ml	15 pg/ml
IL-21	88-8210	16-2000 pg/ml	16 pg/ml
IL-22	88-7422	8 - 1000 pg/ml	8 pg/ml
IL-23 (p19/p40) Higher Sensitivity	88-7230	8-1000 pg/ml	8 pg/ml
IL-23 (p19/p40)	88-7234	30 - 4000 pg/ml	30 pg/ml
IL-27	88-7274	16-2000 pg/ml	16 pg/ml

\*These module sets come supplied with optimized antibody pairs and lyophilized standards. Catalog number BMS412 or BMS414 can be purchased separately for all buffers and solutions.



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## Ready-SET-Go!® Sets Ordering Information

Description	Catalog Number	Standard Range	Sensitivity
<b>Mouse (cont.)</b>			
IL-28	88-7284	32 - 4000 pg/ml	32 pg/ml
IL-33	88-7333	25-3000 pg/ml	25 pg/ml
IP-10	BMS6018MST*	7.8 - 500 pg/ml	
TGF-β1	88-7344	60 - 8000 pg/ml	60 pg/ml
TNF-α	88-7324	8 - 1000 pg/ml	8 pg/ml
TNF-RII	88-1205	4 - 500 pg/ml	4 pg/ml
TSLP	88-7490	16-2000 pg/ml	16 pg/ml
<b>Rat</b>			
IL-1β	88-6010	39- 5000 pg/ml	39 pg/ml
IL-17A	88-7170	2 - 200 pg/ml	2 pg/ml
TNF-α	88-7340	16pg/ml-2000pg/ml	16pg/ml

\*These module sets come supplied with optimized antibody pairs and lyophilized standards. Catalog number BMS412 or BMS414 can be purchased separately for all buffers and solutions.



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# ELISA Antibodies and Recombinant Protein Standards

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- Biotin-conjugated antibodies validated for ELISA antigen detection
- High-quality recombinant protein standards, QC tested for ELISA
- Avidin-HRP
- TMB Substrate Solution
- 96-well ELISA Plates

# Areas of Biology

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As a leading supplier of reagents for Immunology and Oncology, eBioscience understands you don't simply study a single analyte or protein target in isolation. Rather, you approach your research based on a pathway or area of biology and the many molecules involved. In the next several pages, we highlight the Immunoassay kits available for four popular areas of biology for human, mouse, rat and monkey targets.

## See the full picture with eBioscience Immunoassays

- Inflammation
- Th17 Research
- Tumor Biology
- Apoptosis

## Immunoassays for Inflammation

Inflammation is the complex biological response of vascular tissues to harmful stimuli, such as pathogens, damaged cells, or irritants. It is a protective attempt by the organism to remove the injurious stimuli as well as initiate the healing process for the tissue. In a healthy individual, the liver constantly synthesizes a characteristic set of plasma proteins. During an acute phase response the rate of synthesis changes, primarily influenced by Interleukin 1 (IL-1) and Tissue Necrosis Factor  $\alpha$  (TNF- $\alpha$ ), in combination with corticosteroids. Plasma proteins that increase during the acute phase response are called acute phase proteins. One of them is C-reactive protein (CRP), which might increase up to 1000-fold above its normal level. Interleukin 6 (IL-6) is an early phase mediator of the acute phase. It favors chronic inflammation by stimulation of T and B cells. Most of these proteins are produced by hepatocytes, some by monocytes, and others by endothelial cells, fibroblasts or adipocytes. The response has two aspects: the local component includes polymorphonuclear followed by mononuclear infiltration of the infected tissue. The systemic component comprises the secretion of acute phase plasma proteins, whose profiles change during the acute response.

### Inflammation Products

Human	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
Adhesion 6plex	BMS812FF		
Adiponectin	BMS82032FF		
Cardiovascular 6plex	BMS811/2FF		
Chemokines 6plex	BMS813FF		
sCD8			BMS226/2
sCD26			BMS235
sCD27		BMS286INST	
sCD30		BMS240INST	BMS240
sCD30L			BMS298
sCD40			BMS265
sCD40L	BMS8239/2FF	BMS239INST	BMS239
sCD44std		BMS209INST	
sCD80 (B7-1)		BMS291INST	
sCD86 (B7-2)		BMS292INST	
sCD137 (4-1BB)			BMS289
CRP	BMS8288FF	BMS288INST	
sE-selectin	BMS8205FF	BMS205INST	BMS205
G-CSF	BMS82001FF	BMS2001INST	
GM-CSF		BMS283INST	BMS283
sICAM-1	BMS80201FF	BMS201INST	BMS201
sICAM-2			BMS236
sICAM-3	BMS8218FF	BMS218INST	BMS218
IFN- $\alpha$	BMS8216FF	BMS216INST	BMS216
IFN- $\gamma$	BMS8228FF	BMS228INST	BMS228
IFN- $\omega$			BMS233
IL-1 $\alpha$	BMS80243FF		BMS243/2
IL-1 $\beta$	BMS8224FF		
sIL-2R		BMS212INST	BMS212/2
IL-4	BMS8225FF	BMS225INST	BMS225/2



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## Inflammation Products

Human (cont.)	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
IL-5	BMS8278FF	BMS278INST	BMS278
sIL-6R		BMS214INST	BMS214
IL-7		BMS237INST	
IL-10	BMS8215FF	BMS215INST	BMS215/2
IL-13	BMS8231FF	BMS231INST	BMS231/3
IL-18	BMS8267FF	BMS267INST	BMS267/2
IP-10	BMS8284FF	BMS284INST	
LIF			BMS242
sLIF-R (gp190)			BMS246
sL-selectin		BMS206INST	BMS206
MCP-1	BMS8281FF	BMS281INST	BMS281
MIG	BMS8285FF	BMS285INST	
MIP-1α	BMS82029FF	BMS2029INST	
MIP-1β	BMS82030FF	BMS2030INST	
Obesity 9plex	BMS816/2FF		
PAI-1	BMS82033FF		BMS2033
sPECAM-1	BMS8229FF	BMS229INST	BMS229
sP-selectin	BMS8219/2FF		BMS219/4
PMN-Elastase			BMS269
RANTES	BMS8287FF	BMS287/2INST	
TGF-β1	BMS8249FF	BMS249/2INST	BMS249/3
TGF-β2			BMS254
Th1/Th2 11plex	BMS810FF		
TIMP-1	BMS82018FF		BMS2018
TNF-α	BMS8223FF	BMS223INST	BMS2034
TNF-β	BMS8202FF	BMS202INST	BMS202
t-PA	BMS8258FF		BMS258/2
TWEAK		BMS2006INST	
sVCAM-1	BMS8232/2FF		BMS232
VEGF-A	BMS80277FF		BMS277/2
VEGF-C			BMS297/2
sVEGF-R1			BMS268/2
VEGF-R2 (KDR)			BMS2019
VEGF-R3 (FLT-4)			BMS2064

Mouse	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
Chemokines 6plex	BMS821FF		
sCD40L			BMS6010
CXCL1 (KC)	BMS86019FF		
Eotaxin			BMS6008
GM-CSF	BMS8612FF		BMS612
IFN-γ	BMS8606/2FF	BMS606INST	BMS606
IL-10	BMS8614/2FF	BMS614/2INST	BMS614/2
IL-13	BMS86015FF		BMS6015
IL-18	BMS8618FF		BMS618/2
IL-1α	BMS8611FF	BMS611INST	BMS611
IL-1β	BMS86002FF		
IL-4	BMS8613FF	BMS613INST	BMS613



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## Inflammation Products

Mouse (cont.)	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
IL-5	BMS8610FF		BMS610
IP-10	BMS86018FF		BMS6018
MCP-1	BMS86005FF		BMS6005
MCP-3	BMS86006FF	BMS6006INST	
MCP-5		BMS6007INST	
MIP-1α	BMS86013FF		
MIP-1β	BMS86014FF		
RANTES	BMS86009FF	BMS6009INST	
TGF-β1	BMS8608FF		BMS608/3
Th1/Th2 10plex	BMS820FF		
TNF-α	BMS8607/2FF	BMS607/2INST	BMS607/2
sVEGF-A			BMS619/2

Rat	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
Cytokines 6plex	BMS825FF		
GM-CSF	BMS8633FF		BMS633
IFN-γ	BMS8621/2FF		BMS621
IL-1α	BMS8627FF		BMS627
IL-4	BMS8628FF		BMS628
IL-10			BMS629
MCP-1	BMS8631FF	BMS631INST	
TGF-β1			BMS623/2
TNF-α	BMS8622FF		BMS622
VEGF-C			BMS626/2

Monkey	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sE-selectin		BMS649INST	BMS649
ICAM-1			BMS648
sICAM-1		BMS648INST	
IL-10		BMS642INST	BMS642/2
sPECAM-1		BMS651INST	BMS651
sP-selectin			BMS650/4
TNF-α total			BMS654



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## Immunoassays for Th17 Research

Th17 cells are very efficient inducers of tissue inflammation and crucial initiators of organ-specific autoimmunity. Furthermore, they play a role in allergy and tumor development.

Murine Th17 cells express a master transcription factor different from Th1 and Th2 cells, an orphan receptor known as retinoic acid-related orphan receptor (ROR $\gamma$ T). A second orphan receptor, named ROR $\alpha$ , has also been found to contribute to the development of murine Th17 cells. Studies in humans showed that Th17 cells express RORC, CCR6, CCR4 and the IL-23R, but also CD161, the equivalent of murine NK1.1. Th17 cells secrete a range of interleukins and chemokines including IL-6, IL-17A, IL-17F, IL-20, IL-21, IL-22, IL-26, TNF- $\alpha$ , CCL20, and GM-CSF. Another difference between murine and human Th17 cells was found with regard to their origin. While murine Th17 cells originate from a naïve Th cell in the presence of TGF- $\beta$  and IL-6, human Th17 cells exclusively originate in the presence of IL-1 $\beta$  and IL-23 from a small subset of naïve CD4+ Th cells that express CD161, which are present in the umbilical cord blood and newborn thymus.

### Th17 Research Products

Human	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
GM-CSF		BMS283INST	BMS283
IFN- $\gamma$	BMS8228FF	BMS228INST	BMS228
IL-1 $\beta$	BMS8224FF	BMS224INST	BMS224/2
IL-2	BMS8221FF	BMS221INST	BMS221
IL-6	BMS8213FF	BMS213INST	BMS213/2
IL-8	BMS8204FF	BMS204/3INST	BMS204/3
IL-12 (p70)	BMS8238FF		BMS238
IL-12/IL-23 (p40)			BMS2013
IL-17A	BMS82017FF		BMS2017
IL-17F			BMS2037
IL-21			BMS2043
IL-22	BMS82047FF		BMS2047
IL-23	BMS82023FF		88-7239
TGF- $\beta$ 1	BMS8249FF	BMS249/2INST	BMS249/3
TGF- $\beta$ 2			BMS254
TNF- $\alpha$	BMS8223FF	BMS223INST	BMS2034

Mouse	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
GM-CSF	BMS8612FF		BMS612
IFN- $\gamma$	BMS8606/2FF		
IL-1 $\beta$	BMS86002FF	BMS6002INST	BMS6002
IL-2	BMS8601FF		BMS601
IL-6	BMS8603FF		BMS603
IL-12 (p70)	BMS86004FF		BMS6004
IL-12 (p40/p70)			BMS616
IL-17	BMS86001FF		BMS6001
IL-22	BMS86016FF		BMS6016
IL-23	BMS86017FF		BMS6017 / 88-7923
TGF- $\beta$ 1	BMS8608FF		BMS608/3
TNF- $\alpha$	BMS8607/2FF	BMS607/2INST	BMS607/2
sVEGF-A			BMS619/2



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## Th17 Research Products

Rat	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
GM-CSF	BMS8633FF		BMS633
IFN-γ	BMS8621/2FF		
IL-1β			BMS630
IL-2			BMS634
IL-6			BMS625
TGF-β1			BMS623/2
TNF-α	BMS8622FF		BMS622

Monkey	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
IL-1β			BMS645
IL-2			BMS643
IL-6	BMS641INST		BMS641/2
IL-8	BMS640/3INST		BMS640/3
IL-12 (p70)			BMS646
TNF-α total			BMS654



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## Immunoassays for Tumor Biology

Formation of a carcinoma begins with the transformation of normal cells within a localized region. Within this niche, transformed cells release various cytokines and growth factors into their surroundings, which recruit and often re-program other types of cells to establish a tumor microenvironment. Consequently, these tissues contain a large number of endothelial cells, fibroblasts, and infiltrating inflammatory cells, all actively releasing soluble proteins capable of modulating the immune response either against or in favor of tumorigenesis. These interactions between immune and tumor cells involve multiple cascades of cytokines, chemokines, and/or growth factors.

Vascular Endothelial Growth Factor (VEGF) acts on endothelial cells to promote angiogenesis, tumor growth, invasion and metastasis. In addition to vascular effects, VEGF also mobilizes mononuclear cells and endothelial progenitor cells from bone marrow. Whereas the former enhances tumor inflammation, the latter participates in vasculogenesis. VEGF-induced vascular tortuosity and leakiness also provide a structural basis for cell invasion into the circulation system, enabling distal metastasis.

Also within the tumor microenvironment, monocytes can differentiate into tumor-associated macrophages (TAM), which secrete growth factors, proteases, angiogenic mediators, cytokines such as TNF- $\alpha$ , IL-1 and IL-6, and chemokines including CCL2 (MCP-1) and CCL5 (RANTES). Some of these cytokines induce expression of other promalignant factors such as matrix metalloproteinases (MMP). In contrast, chemokines like CXCL10 (IP-10) and CXCL9 (MIG) may result in the recruitment of leukocytes that inhibit cancer progression.

Finally, adhesion molecules such as ICAM-1, ICAM-3, VCAM-1 and the selectins are expressed by many different kinds of cancer cells, and are important for the metastatic potential of malignant cells.

### Tumor Biology Products

Human	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
s90K (Mac-2BP)			BMS234
Adhesion 6plex	BMS812FF		
anti-IFN- $\alpha$			BMS217
sAPO-1 (Fas)	BMS80245FF		BMS245
APRIL			BMS2008
Bcl-2			BMS244/3
Caspase-8 (FLICE)			BMS2024
Caspase-9	BMS82025FF		BMS2025
Cathepsin L			BMS257
sCD23			BMS227/2
sCD27		BMS286INST	
sCD30	BMS8240FF	BMS240INST	BMS240
sCD30L			BMS298
sCD40L	BMS8239/2FF	BMS239INST	BMS239
sCD44std		BMS209INST	BMS209/2
sCD44var (v5)		BMS220INST	BMS220
CD44var (v6)	BMS80210FF	BMS210INST	BMS210
sCD80 (B7-1)		BMS291INST	
sCD86 (B7-2)		BMS292INST	



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## Tumor Biology Products

Human (cont)	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sCD134 (OX40)			BMS296
CRP	BMS8288FF	BMS288INST	
Cu/ZnSOD			BMS222
Cytochrome c			BMS263
DcR3			BMS2031
EGF	BMS82070FF		
sEGF-R (active)			BMS270
Erythropoietin (EPO)			BMS2002
sE-selectin	BMS8205FF	BMS205INST	BMS205
sFas Ligand			BMS260/2
Galectin-3			BMS279/2
G-CSF	BMS82001FF	BMS2001INST	
GM-CSF		BMS283INST	BMS283
sHER-2		BMS207INST	BMS207
HGF	BMS82069FF		
sICAM-1	BMS80201FF	BMS201INST	BMS201
sICAM-3	BMS8218FF	BMS218INST	BMS218
IFN-α	BMS8216FF	BMS216INST	BMS216
IFN-γ	BMS8228FF	BMS228INST	BMS228
IL-1β	BMS8224FF	BMS224INST	BMS224/2
IL-2	BMS8221FF	BMS221INST	BMS221
sIL-2R		BMS212INST	BMS212/2
IL-4	BMS8225FF	BMS225INST	BMS225/2
IL-6	BMS8213FF	BMS213INST	BMS213/2
sIL-6R		BMS214INST	BMS214
IL-7		BMS237INST	
IL-8	BMS8204FF	BMS204/3INST	BMS204/3
IL-10	BMS8215FF	BMS215INST	BMS215/2
IL-18	BMS8267FF	BMS267INST	BMS267/2
sL-selectin		BMS206INST	BMS206
MCP-1	BMS8281FF	BMS281INST	BMS281
MMP-3		BMS2014/2INST	
MMP-9	BMS82016FF		BMS2016/2
MMP-13	BMS82022FF		BMS2022
p53			BMS256
sPECAM-1	BMS8229FF	BMS229INST	BMS229
sP-selectin	BMS8219/2FF		BMS219/4
sPSGL-1			BMS255
RANTES	BMS8287FF	BMS287/2INST	
TGF-β1	BMS8249FF	BMS249/2INST	BMS249/3
TIE-2			BMS2042
TIMP-1	BMS82018FF		BMS2018
TNF-α	BMS8223FF	BMS223INST	
TNF-α total			BMS2034
sTNF-R	BMS8203FF	BMS203INST	BMS203
TRAIL			BMS2004
sVAP-1			BMS259
sVCAM-1	BMS8232/2FF		BMS232



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## Tumor Biology Products

Human (cont)	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sVE-cadherin		BMS253INST	BMS253
VEGF-A	BMS80277FF		BMS277/2
VEGF-R2 (KDR)			BMS2019
VEGF-R3 (FLT-4)			BMS2064

Mouse	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sCD40L			BMS6010
GM-CSF	BMS8612FF		BMS612
IFN-γ	BMS8606/2FF	BMS606INST	BMS606
IL-1α	BMS8611FF	BMS611INST	BMS611
IL-1β	BMS86002FF	BMS6002INST	BMS6002
IL-2	BMS8601FF		BMS601
IL-4	BMS8613FF	BMS613INST	BMS613
IL-6	BMS8603FF		BMS603
IL-10	BMS8614/2FF	BMS614/2INST	BMS614/2
IL-18	BMS8618FF		
MCP-1	BMS86005FF		BMS6005
RANTES	BMS86009FF	BMS6009INST	
TGF-β1	BMS8608FF		BMS608/3
TNF-α	BMS8607/2FF	BMS607/2INST	BMS607/2
sVEGF-A			BMS619/2

Rat	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
GM-CSF	BMS8633FF		BMS633
IFN-γ	BMS8621/2FF		BMS621
IL-1α	BMS8627FF		BMS627
IL-1β			BMS630
IL-2			BMS634
IL-4	BMS8628FF		BMS628
IL-6			BMS625
IL-10			BMS629
MCP-1	BMS8631FF	BMS631INST	
TGF-β1			BMS623/2
TNF-α	BMS8622FF		BMS622

Monkey	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sE-selectin	BMS649INST		BMS649
sICAM-1	BMS648INST		BMS648
sPECAM-1	BMS651INST		BMS651
IL-1β			BMS645
IL-2			BMS643
IL-6			BMS641/2
IL-8			BMS640/3
IL-10			BMS642/2
sP-selectin			BMS650/4
TNF-α total			BMS654
sTNF-RI			BMS653
sVE-cadherin			BMS652



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## Immunoassays for Apoptosis

Cell death can occur via several pathways, including apoptosis, necrosis, and other “emerging” pathways which have become the focus of intense research. Classification of these types of cell death involves a defined set of morphological and/or biochemical criteria.

Apoptosis involves morphological changes such as cell rounding, chromatin condensation / nuclear fragmentation, and so called “blebbing” of the plasma membrane. Key biochemical events associated with apoptosis often depend on cysteine proteases, “caspases”, and caspase-activating proteins such as cytochrome c, when released by mitochondria into the cytosol. Proteins of the Bcl-2 family mediate mitochondrial outer membrane permeabilization (MOMP) and cytochrome c release. Specifically, anti-apoptotic proteins Bcl-2 and Bcl-xL, inhibit cytochrome c release, whereas pro-apoptotic proteins Bad, Bid, Bax/Bak and Bim promote cytochrome c release.

The induction of apoptosis, and in particular caspase-dependant pathways, begins with activation of cell surface “death receptors”, e.g. Fas (APO-1/CD95), TNFR-I, DR4, and DR5. Death-inducing ligands such as Fas Ligand (FasL), TNF- $\alpha$ , LIGHT, TRAIL, and TWEAK may be expressed at the cell surface or as soluble forms, which may possess distinct functions. For example, membrane-bound FasL is a primary inducer of apoptosis, whereas soluble FasL may have either pro-apoptotic, anti-apoptotic, or neutrophil chemotactic functions.

Apoptosis is critical for cellular homeostasis, and within immune regulatory pathways, is important in the selection of the T cell repertoire, deletion of self-reactive lymphocytes, and in the cytotoxic response against target cells. CTL and NK cells, important for anti-viral and anti-tumor immunity, trigger apoptosis in infected or transformed target cells via secretory granules containing perforin, a pore-forming protein, and granzymes A and B.

### Apoptosis Products

Human	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
Annexin V			BMS252
sAPO-1 (Fas)	BMS80245FF		BMS245
APRIL			BMS2008
BAFF		BMS2007INST	
Bcl-2			BMS244/3
Caspase-3	BMS82012FF	BMS2012INST	
Caspase-8 (FLICE)			BMS2024
Caspase-9	BMS82025FF		BMS2025
sCD30L			BMS298
sCD40			BMS265
sCD40L	BMS8239/2FF	BMS239INST	BMS239
sCD134 (OX40)			BMS296
Cu/ZnSOD			BMS222
Cytochrome c			BMS263
DcR3			BMS2031
sFas Ligand			BMS260/2
Granzyme A			BMS2026
Granzyme B			BMS2027
MPO	BMS82038FF	BMS2038INST	
OPG	BMS82021FF	BMS2021INST	



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## Apoptosis Products

Human (cont.)	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
TNF-α	BMS8223FF	BMS223INST	
TNF-α total			BMS2034
sTNF-R (60kDa)	BMS8203FF		BMS203
sTNF-R (80kDa)			BMS211
TRAIL			BMS2004
TWEAK		BMS2006INST	
sVE-cadherin		BMS253INST	BMS253

Mouse	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
sCD40L			BMS6010
TNF-α	BMS8607/2FF	BMS607/2INST	BMS607/2
sTNF-RII		BMS6003INST	

Rat	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
TNF-α	BMS8622FF		BMS622

Monkey	FlowCytomix™ Kits	Instant ELISA® Kits	Platinum ELISA Kits
TNF-α total			BMS654
sTNF-RI		BMS653INST	
sVE-cadherin			BMS652



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