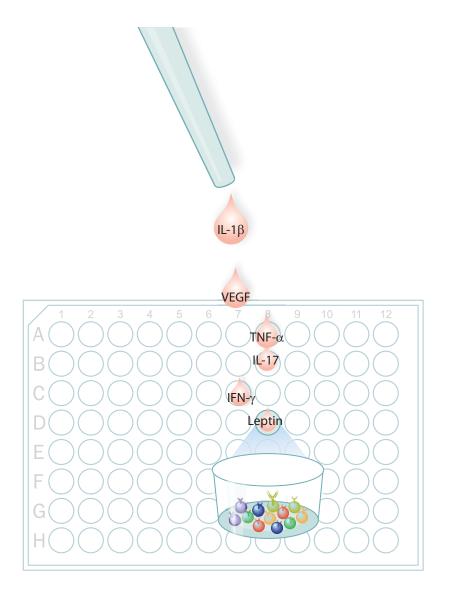
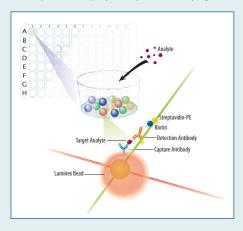
# **Luminex**® **Screening & Performance Assays**Bead-based Multiplex Kits





Luminex Screening and Performance Assays are bead-based multianalyte profiling kits. The kits utilize color-coded polystyrene or superparamagnetic microparticles coated with antibodies that specifically recognize the target analytes. The different analyte-specific beads are mixed and incubated with the sample. Captured analytes are subsequently detected using a cocktail of biotinylated detection antibodies and a streptavidin-phycoerythrin conjugate.



Kits are available in two formats depending on the target analytes:

#### Polystyrene beads

Polystyrene beads are designed for use with the Luminex 100<sup>™</sup>, Luminex 200<sup>™</sup>, or Bio-Rad® Bio-Plex® dual laser analyzers. One laser in these instruments determines the color of each bead while the second laser determines the magnitude of the PE-derived signal, which is directly proportional to the amount of analyte bound.

#### **Magnetic beads**

Magnetic beads are compatible with the Luminex MAGPIX®, Luminex 100, Luminex 200, and Bio-Rad Bio-Plex analyzers. The Luminex MAGPIX analyzer utilizes a magnet to hold the superparamagnetic microparticles in a monolayer while two spectrally distinct light-emitting diodes (LEDs) illuminate the beads. One LED identifies the analyte that is being detected while the second LED determines the magnitude of the PE-derived signal. Each well is imaged with a charge-coupled device (CCD) camera.

## **Luminex Screening Assays**

Luminex Screening Assays are our most flexible kits for multianalyte profiling of cell culture supernates, serum, or plasma samples. Kits include a multi-purpose diluent that allows up to 40 out of 79 available human biomarkers to be simultaneously profiled. The analytes for the user-defined multiplex are selected from a broad and rapidly expanding menu and are supplied as premixed kits.

- ✓ Flexible: Up to 40 out of 79 available human biomarkers can be simultaneously profiled
- ✓ The most cost-effective assay for profiling multiple
- ✓ Offers a menu that will be rapidly expanding
- ✓ All assays can be performed in 3-3.5 hrs
- ✓ Assays require a small sample volume (<50 µL)
- Reagents are supplied as premixed kits and shipped in 3-5 days from the date of order

For more information, please visit our website at www.RnDSystems.com/LuminexScreening

### Analytes available in the polystyrene bead format

Adiponectin/Acrp30	CXCL10/IP-10	IL-2	ROBO4 coming soon
Aggrecan	CXCL11/I-TAC	IL-4	E-Selectin/CD62E
Angiopoietin-2 coming soon	CXCL13/BLC/BCA-1 coming soon	IL-5	P-Selectin/CD62P
BAFF/BLyS coming soon	DcR3/TNFRSF6B	IL-6	Serpin E1/PAI-1 coming soon
BCMA/TNFRSF17	Dkk-1 coming soon	IL-10	SHBG coming soon
BMP-2	EGF	IL-12 p70	SOST coming soon
BMP-4	EphA2	IL-17A	ST2/IL-1 R4
BMP-9	Fas/TNFRSF6	IL-18 BPa	TACI/TNFRSF13B
Cardiac Troponin I/cTNI coming soon	Fas Ligand coming soon	IL-19	Tie-1
CCL2/MCP-1	FGF basic	IL-22 coming soon	Tie-2
CCL3/MIP-1α	FGF-21	IL-23	Thrombopoietin/Tpo
CCL4/MIP-1β	Fibrinogen coming soon	IL-27	TNF-α
CCL5/RANTES	Galectin-3 coming soon	IL-28A/IFN-λ2	TNF RI/TNFRSF1A
CCL8/MCP-2 coming soon	G-CSF	IL-31 coming soon	TNF RII/TNFRSF1B
CCL13/MCP-4 coming soon	GDF-15	IL-33	TRAIL R3/TNFRSF10C
CCL20/MIP-3 <i>a. coming soon</i>	GM-CSF	Leptin/OB	VCAM-1/CD106
CD14 coming soon	HB-EGF	MMP-1	VEGF
CD27/TNFRSF7	HGF	MMP-2	VEGF R1/Flt-1
CD30/TNFRSF8	ICAM-1/CD54	MMP-3	VEGF R3/Flt-4
CD40/TNFRSF5	IFN-γ	MMP-7	
Chitinase 3-like 1/YKL40	IFN-γ R1	MMP-8	
Comp. Factor D/Adipsin	IL-1α/IL-1F1	MMP-9	
Cripto-1	IL-1β/IL-1F2	MMP-12	
C-Reactive Protein/CRP	IL-1ra/IL-1F3	MMP-13	
CXCL1/GR0α	IL-1 RI	Myoglobin coming soon	
CXCL5/ENA-78	IL-1 RII	PCSK9 coming soon	
CXCL8/IL-8		RAGE coming soon	
* Analytes listed as coming soon above wil	ll be available in <b>June 2013</b>		

## Analytes available in the magnetic bead format

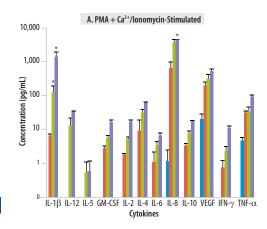
Human Phospho-RTK Kit A		Human Phospho-RTK Kit B		
EGF R/ErbB1	EphB6	ALK/CD246	PDGF $R\alpha$	
EphA1	ErbB2/Her2	AxI	PDGF Rβ	
EphA2	ErbB3/Her3	DDR1	PTK7/CCK4	
EphA3	ErbB4/Her4	DDR2	ROR1	
EphA4	Flt-3/Flk-2	Dtk	ROR2	
EphA5	HGF R/c-MET	FGF R1	Tie-1	
EphA6	IGF-I R	FGF R2 $lpha$	Tie-2	
EphA7	M-CSF R	FGF R3	TrkB	
EphA8	MSP R/Ron	FGF R4	TrkC	
EphB1	Ret	Insulin R/CD220	VEGF R1/Flt-1	
EphB2	SCF R/c-kit	LTK	VEGF R2/KDR	
EphB3	TrkA	Mer	VEGF R3/Flt-4	
EphB4		MuSK		

www.RnDSystems.com

## **Luminex Performance Assays**

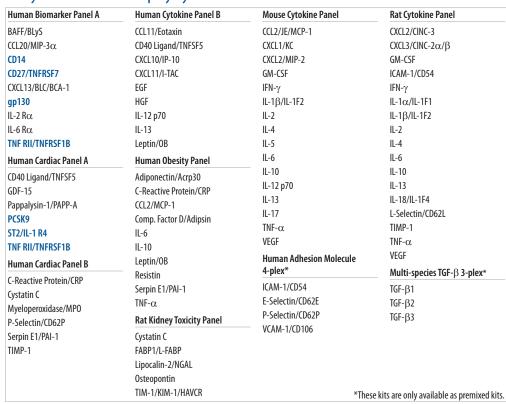
Luminex Performance Assays are our most accurate and precise bead-based multianalyte profiling kits. All analytes in a given panel are tested together to ensure optimal kit performance for the entire panel. Analytes can be ordered either as a complete panel or as a smaller subset from any panel shown below. The kits can be used to measure target analytes in qualified sample types, which may include cell culture supernates, serum, plasma, urine, saliva, and milk.

- Kits undergo similar validation testing as the Quantikine® single analyte assays and are correlated with Quantikine ELISAs, when available
- Kits consist of base kits and bead sets, which can be ordered individually or as premixed kits
- ✓ Kits are available for human, mouse, and rat analytes
- ✓ All assays can be performed in 2.5-5 hrs
- ✓ Assays require a small sample volume (<100 µL)
- Kits containing beads that the user will mix are delivered 1 day after the order is placed; kits containing beads that we mix are delivered in 2-4 days

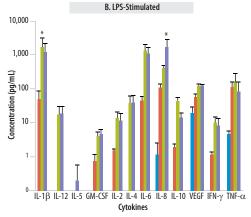


For more information, please visit our website at www.RnDSystems.com/LuminexPerformance

### Analytes available in the polystyrene bead format







Multiplex Measurement of PMA/Ca<sup>2+</sup>/lonomycin or LPS-stimulated Cytokine Production in Cultured Whole Blood. Whole blood samples from apparently healthy donors were cultured for one, eight, or twenty-four hours in the presence of A) phorbol 12-myristate 13-acetate (PMA; 50 ng/mL) and Ca<sup>2+</sup>/lonomycin (500 ng/mL) or B) lipopolysaccharide (LPS; 50 ng/mL). Samples were taken from unstimulated and stimulated cultures and centrifuged to collect plasma. The levels of the indicated cytokines were simultaneously quantified using the Luminex Performance Human High Sensitivity Cytokine Panel (Catalog # LHSC000). Columns represent the mean of four whole blood samples + the standard deviation. \*One or more of the results were above the range of the standard curve and the value was extraoolated.

## Analytes available in the magnetic and polystyrene bead format

Human Angiogenesis Panel	Human Cytokine Panel A		Human High Sensitivity	Human MMP Panel	Human TIMP 4-plex*
Angiogenin	CCL2/MCP-1	IL-1ra/IL-1F3	Cytokine Panel	MMP-1	TIMP-1
Angiopoietin-1	CCL3/MIP-1 $\alpha$	IL-2	CXCL8/IL-8	MMP-2	TIMP-2
Endostatin	CCL4/MIP-1β	IL-4	GM-CSF	MMP-3	TIMP-3
FGF acidic	CCL5/RANTES	IL-5	IFN-γ	MMP-7	TIMP-4
FGF basic	CXCL5/ENA-78	IL-6	IL-1β/IL-1F2	MMP-8	
PDGF-AA	CXCL8/IL-8	IL-10	IL-2	MMP-9	
PDGF-BB	FGF basic	IL-17	IL-4	MMP-10	
PIGF	G-CSF	TNF-α	IL-5	MMP-12	
Thrombospondin-2	GM-CSF	Thrombopoietin/Tpo	IL-6	MMP-13	
VEGF	IFN-γ	VEGF	IL-10	EMMPRIN	
VEGF-D	IL-1α/IL-1F1		IL-12 p70		
	IL-1β/IL-1F2		TNF-α		
	· p· ·- · · 2		VEGF		*This kit is only available as a premixed

## **Coming Soon!**

## A New Online Luminex Assay Configuration & Ordering Tool

