

R&D Systems™ Luminex® Portfolio



R&D Systems™ has a complete solution to optimize productivity across your Luminex® workflow.

Luminex Instruments and R&D Systems Assays

From screening biomarkers for further evaluation to validating results for drug development, multiplex immunoassays offer several critical performance advantages. The ability to measure multiple targets in a single assay allows researchers to detect hundreds of analytes in a single run while being judicious with precious sample volumes.

As one of the most trusted platforms for high-level protein multiplexing, R&D Systems Luminex Assays are designed to maximize multiplexing capacity and flexibility while maintaining assay specificity. Utilizing Luminex xMAP® microparticle technology, Luminex assays from R&D Systems are rigorously validated for accuracy, reproducibility, and lot-to-lot consistency.

Luminex Assays by R&D Systems

R&D Systems Luminex Assays are ideal for researchers needing to evaluate multiple analytes for trends in protein expression in disease states or following treatment. Validated and tested for optimum performance, R&D Systems Luminex Assays are designed to optimize multiplexing capabilities while delivering consistent and accurate results.

- Choose from a rapidly expanding menu of over 450 analytes
- Select kits designed for human, mouse, rat, non-human primate, and porcine analytes
- Run a multiple analyte assay in 3–3.5 hours
- Assay multiple analytes in a small sample volume (< 50 µL)
- Choose from three flexible formats

Validation and Testing

Antibody pairs are selected and tested to confirm the parallel detection of natural and recombinant standard protein and to ensure the accurate determination of target analyte within biological samples

R&D Systems Luminex Assays are validated for use with cell culture supernatants, plasma, or serum.

Assays for each target analyte are screened against all target analytes to confirm low antibody cross-reactivity.





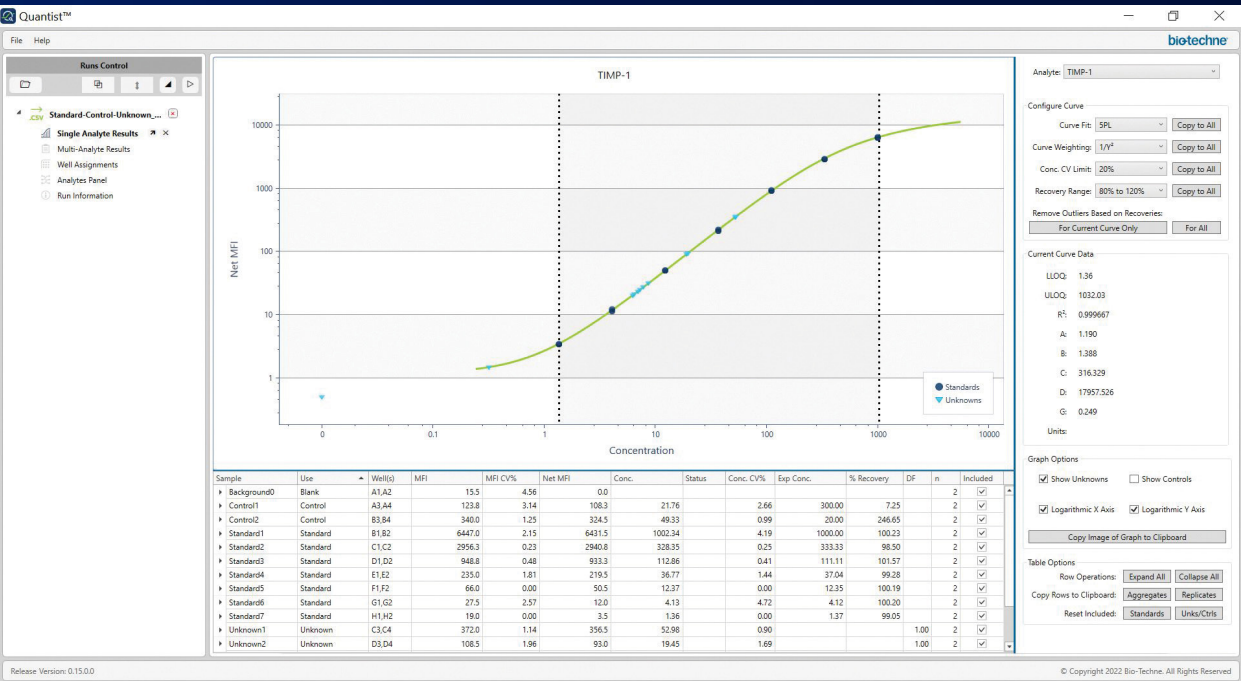
Quantist Software

Quantist Luminex data analysis software helps you extract valuable insights from data complexity. Use this software to evaluate the quality of your standards, controls, and unknowns. Evaluate the long-term consistency of your Luminex data by using Quantist to make inter-assay comparisons. Import CSV files from any Luminex instrument and export ready-to-graph, Excel files.

- Easily exclude individual wells or aggregates
- Remove low bead counts with a single click
- Assign or update well assignments in the Luminex96-well plate
- Export optimized data for graphing

TABLE // 01
Quantist Minimum
Software Requirements

Processor	3.0 GHz i7 6th gen
Ram	8 GB
Hard Drive	256 GB
Ports	1-USB 1-NIC
OS	Windows 10 Pro 64bit
Screen Resolution	1600x900 24 bit color



R&D Systems Luminex Discovery Assays

Personalize your multiplex immunoassay panel using Luminex Discovery Assays. Create your panel of up to 50 analytes with the largest customizable menu on the market. Explore our large catalog of human, mouse, rat, and porcine targets. All assays can be performed in 3.5 hours or less.

- Most flexible panel building on the market
- Custom built panels of up to 50 analytes
- Panels come pre-mixed for easy set-up
- Validated and tested for optimum performance

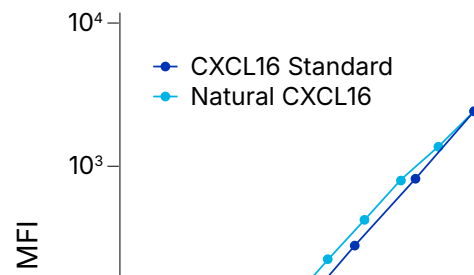


Figure 1. Luminex Assays undergo testing to ensure that they detect natural proteins in parallel with the recombinant protein standard. A dilution curve detecting natural or recombinant standard CXCL16 is shown. Parallel detection of natural and recombinant standard proteins ensure that the concentration within a biological sample can be accurately determined in comparison to the recombinant protein used to generate the standard curve.

R&D Systems Luminex High Performance Assays

Correlated with the gold standard Quantikine™ ELISA kits, our Luminex High Performance Assay panels are optimized with custom diluents and extensively validated to ensure consistent and accurate results. Pre-defined multiplex panels are designed using key analytes from chosen research areas.

- Our most accurate and precise bead-based multianalyte profiling kits.
- High sensitivity panels available for low abundance proteins.
- Large XL Cytokine panels for detecting 38-46 analytes.
- Flexible panel options from configurable premixed kits, user mix, and off-the-shelf fixed panels

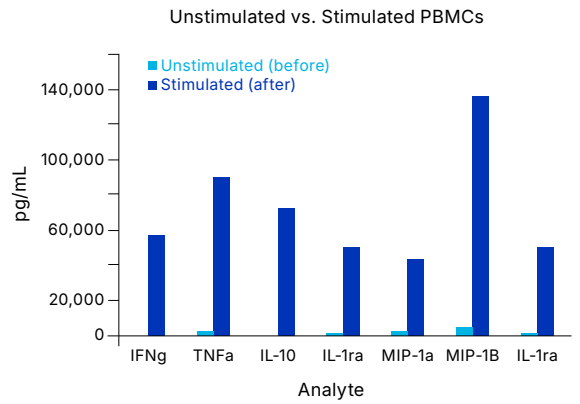


Figure 2. The Human XL Cytokine Performance Panel, FCSTM18B, detects the inflammatory response of Cytokine-Release Syndrome (CRS) biomarkers. Unstimulated and stimulated PBMCs were tested for multiple analytes to measure the different levels that are seen in CRS. The Human XL Cytokine Performance Panel's high sensitivity and superior accuracy offers the most reliable method of measuring CRS-associated inflammatory cytokines.

TABLE // 02

Choose Your R&D Systems
Luminex Assay Format

		Luminex Discovery Assay	Luminex High Performance Assay
Species Available	Human	✓	✓
	Mouse	✓	✓
	Rat	✓	
	Primate		✓
	Porcine	✓	
Sample Volume Required	µL Sample	≤ 25 - 50	≤ 25 - 50
Multiplex Analyte Capacity	Magnetic	50 User-Selected	User-Selected from Panel, or Fixed Panel
Validated Sample Types	Serum	✓	✓
	Plasma	✓	✓
	Cell Culture Supernates	✓	See Datasheet
	Milk		See Datasheet
	Saliva		See Datasheet
	Urine		See Datasheet
Run Time	Hours	3–3.5	2.5–5
Kit Preparation	Premixed	✓	✓
	End-user Mixed		✓
Assay Validation	Mean Sensitivity	< the low standard	≤ 3/4 the low standard
	Intra-assay Precision	< 20%	< 15%
	Intra-assay Precision	< 30%	< 17%
	Recovery (Individual Samples)	N/A	70–130%
	Assay Linearity	Dose-Dependent Decrease in Values	1:2–1:8
	Linearity (Individual Samples)	Dose-Dependent Decrease in Values	70–130%
Analytes Available	Human	> 350	>135
	Mouse	> 108	45
	Rat	17	0
	Primate	0	36
	Porcine	20	0

TABLE // 03

R&D Systems Luminex® High Performance
Assays Fixed Panels

Human Cytokine Panel 15-Plex, LKTM011B					
IFN-alpha	IL-1 beta/IL-1F2	IL-3	IL-7	IL-15	
IFN-gamma	IL-1ra/IL-1F3	IL-4	IL-9	IL-33	
IL-1 alpha/IL-1F1	IL-2	IL-6	IL-10	VEGF	
Human Chemokine Panel 8-Plex, LKTM012B					
CCL2/JE/MCP-1	CCL4/MIP-1 beta	CCL11/Eotaxin	CXCL10/IP-10/CRG-2		
CCL3/MIP-1 alpha	CCL5/RANTES	CXCL1/GRO alpha	IL-8/CXCL8		
Human Growth Factor Panel 21-Plex, LKTM013B					
CCL3/MIP-1 alpha	EGF	Granzyme B	IL-9	PDGF-AA	VEGF
CCL19/MIP-3 beta	FGF basic/FGF2/bFGF	IFN-beta	IL-17E/IL-25	PDGF-AB/BB	
CD40 Ligand/TNFSF5	FIt-3 Ligand/FLT3L	IL-3	IL-33	TGF-alpha	
CXCL2/GRO beta	G-CSF	IL-8/CXCL8	PD-L1/B7-H1	TRAIL/TNFSF10	
Human Immunotherapy Panel 25- Plex, LKTM010B					
CCL2/JE/MCP-1	GM-CSF	IL-1 beta/IL-1F2	IL-8/CXCL8	IL-15	
CCL3/MIP-1 alpha	Granzyme B	IL-1ra/IL-1F3	IL-9	IL-17/IL-17A	
CCL4/MIP-1 beta	IFN-alpha	IL-2	IL-10	IL-33	
CD40 Ligand/TNFSF5	IFN-gamma	IL-4	IL-12 p70	PD-L1/B7-H1	
CXCL10/IP-10/CRG-2	IL-1 alpha/IL-1F1	IL-6	IL-13	TNF-alpha	
Human Th1/Th2 Panel 13-Plex, LKTM008B					
GM-CSF	IL-2	IL-6	IL-12 p70	TNF-beta	
IFN-gamma	IL-4	IL-9	IL-13		
IL-1 beta/IL-1F2	IL-5	IL-10	TNF-alpha		
Human Th9/Th17/Th22 Panel 18-Plex, LKTM009B					
CCL20/MIP-3 alpha	IFN-gamma	IL-4	IL-9	IL-13	IL-17E/IL-25
CD40 Ligand/TNFSF5	IL-1 beta/IL-1F2	IL-5	IL-10	IL-15	IL-33
GM-CSF	IL-2	IL-6	IL-12 p70	IL-17/IL-17A	TNF-alpha

TABLE // 03
R&D Systems Luminex® High Performance
Assays Fixed Panels Continued

Human TIMP Panel 4-Plex, LKTM003					
TIMP-1	TIMP-2	TIMP-3	TIMP-4		
Human XL Cytokine Panel 46-Plex, LKTM014B					
CCL2/JE/MCP-1	CXCL1/GRO alpha	Granzyme B	IL-3	IL-12 p70	PDGF-AB/BB
CCL3/MIP-1 alpha	CXCL2/GRO beta	IFN-alpha 2/IFNA2	IL-4	IL-13	TGF-alpha
CCL4/MIP-1 beta	CXCL10/IP-10/CRG-2	IFN-beta	IL-5	IL-15	TNF-alpha
CCL5/RANTES	EGF	IFN-gamma	IL-6	IL-17/IL-17A	TNF-beta
CCL11/Eotaxin	FGF basic/FGF2/bFGF	IL-1 alpha/IL-1F1	IL-7	IL-17E/IL-25	TRAIL/TNFSF10
CCL19/MIP-3 beta	Flt-3 Ligand/FLT3L	IL-1 beta/IL-1F2	IL-8/CXCL8	IL-33	VEGF
CCL20/MIP-3 alpha	G-CSF	IL-1ra/IL-1F3	IL-9	PD-L1/B7-H1	
CD40 Ligand/TNFSF5	GM-CSF	IL-2	IL-10	PDGF-AA	
Mouse XL Cytokine Panel 45-Plex, LKTM015					
BAFF/BLyS/TNSFS13B	CXCL1/KC	I-CAM	IL-5	IL-16	LIX
CCL2/JE/MCP-1	CXCL10/IP-10/CRG-2	IFN-gamma	IL-6	IL-17A	M-CSF
CCL3/MIP-1 alpha	EGF	IL- 1 alpha/IL-1F1	IL-7	IL-18	TIMP-1
CCL4/MIP-1 beta	FGF-basic	IL-1 beta/IL-1F2	IL-9	IL-21	TNF-alpha
CCL5/RANTES	Flt-3 ligand	IL-1ra/IL-1F3	IL-10	IL-27	VEGF
CCL11/Eotaxin	G-CSF	IL-2	IL-11	IL-31	
CCL19/MIP-3beta	GDF-15	IL-3	IL-12 p70	LDL R	
Chitinase 3-like 1	GM-CSF	IL-4	IL-13	LIF	

TABLE // 04
R&D Systems Luminex®
High Performance Assays

Human Biomarker Panel A, Premix FCSTM13, User Mix LBAM000					
BAFF/BLyS	CD14	CXCL13/BLC/BCA-1	IL-2 Ra	TNF RII/TNFRSF1B	
CCL20/MIP-3 alpha	CD27/TNFRSF7	gp130	CD25/IL-2R alpha		
Human Cytokine Panel A, Premix FCSTM03, User Mix LUHM000					
CCL2/MCP-1	CXCL5/ENA-78	GM-CSF	IL-1ra/IL-1F3	IL-6	Thrombopoietin /Tpo
CCL3/MIP-1 alpha	CXCL8/IL-8	IFN-gamma	IL-2	IL-10	VEGF
CCL4/MIP-1 beta	FGF basic	IL-1 alpha/IL-1F1	IL-4	IL-17	
CCL5/RANTES	G-CSF	IL-1 beta/IL-1F2	IL-5	TNF-alpha	
Human High Sensitivity Cytokine Panel A, Premix FCSTM09, User Mix LHSCM000					
CXCL8/IL-8	IFN-gamma	IL-2	IL-5	IL-10	TNF-alpha
GM-CSF	IL-1 beta/IL-1F2	IL-4	IL-6	IL-12 p70	VEGF
Human High Sensitivity Cytokine Panel B, Premix FCSTM14, User Mix LBHS000					
GM-CSF	IL-2	IL-7	IL-17A	IL-23	IL-36 beta
IFN-g	IL-5	IL-13	IL-17F	IL-31	TNF-alpha
IL-1b	IL-6	IL-15	IL-22	IL-33	
Human Immuno-Oncology Panel Performance Panel, Premix FCSTM24					
CCL17/TARC	CD40/TNFRSF5	CXCL5/ENA-78	LAG-3	PD-L2/B7-DC	
CD27/TNFRSF7	CD25/IL-2R alpha	HVEM/TNFRSF14	OX40 Ligand/TNFSF4	TIM-3	
CD28	CTLA-4	IFN-gamma	PD-L1/B7-H1		
Human Kidney Biomarker Panel, Premix FCSTM16, User Mix LHK000					
Clusterin	CXCL10/IP-10/CRG-2	Cystatin C	Lipocalin-2/NGAL	Osteopontin (OPN)	TFF3
Human MMP Panel, Premix FCSTM07, User Mix LMPM000					
MMP-1	MMP-3	MMP-8	MMP-10	MMP-13	
MMP-2	MMP-7	MMP-9	MMP-12	EMMPRIN	
Human Metabolic Panel, Premix FCSTM19					
C-Peptide	Ghrelin	Glucagon	IL-6	Leptin/OB	Peptide YY
CCL2/JE/MCP-1	GLP-1	IFN-gamma	Insulin	Pancreatic Polypeptide/PP	TNF-alpha

TABLE // 04
R&D Systems Luminex®
High Performance Assays Continued

Human Obesity Panel, Premix FCSTM08, User Mix LOBM000					
Adiponectin/Acrp30	CCL2/MCP-1	IL-6	Leptin/OB	Serpin E1/PAI-1	
C-Reactive Protein/CRP	Comp. Factor D/Adipsin	IL-10	Resistin	TNF-a	
Human Tumor Biomarker Panel, Premix FCSTM25					
AFP	CEACAM-5	Fas Ligand	IL-6	Oseopontin/OPN	Thyroglobulin
CA125	CG beta/HCG beta	FGF basic	IL-8	Prolactin	TNF-alpha
CA15-3	Chromagranin A/CHGA	Glypican-1	Leptin	PSA Total	VEGF
CA19-9	CYFRA21-1	HE4/WFDC2	MIF	SCF/c-kit ligand	
CD40 Ligand	Fas	HGF	Neuron-specific enolase/NSE	TGF-alpha	
Human XL Cytokine Panel, Premix FCSTM18B, User Mix LUXLM000B					
CCL2/MCP -1	CX3CL1/ Fractalkine	GM-CSF	IL-2	IL-10	PDGF-AA
CCL3/MIP-1 alpha	CXCL1/GRO alpha	Granzyme B	IL-3	IL-12 p70	PDGF-BB
CCL4/MIP-1 beta	CXCL2/GRO beta	IFN- alpha	IL-4	IL-13	TGF- alpha
CCL5/RANTES	CXCL10/IP-10	IFN- beta	IL-5	IL-15	TNF- alpha
CCL11/Eotaxin	EGF	IFN- gamma	IL-6	IL-17A	TNF-beta
CCL19/MIP-3 beta	FGF basic/FGF-2	IL-1 alpha	IL-7	IL-17E/IL-25	TRAIL
CCL20/MIP-3 alpha	Flt-3 Ligand	IL-1 beta	IL-8/CXCL8	IL-33	VEGF
CD40 Ligand	G-CSF	IL-1ra	IL-9	PD-L1/B7-H1	
Multi-species TGF-b Panel, Premix FCSTM17, User Mix LTGM00					
TGF- beta1	TGF- beta2	TGF- beta3			
Mouse XL Cytokine Performance Panel, Premix FCSTM20, User Mix LMXL000					
BAFF/BLyS/ TNSFS13B	CXCL1/KC	I-CAM	IL-5	IL-16	LIX
CCL2/JE/MCP-1	CXCL10/IP-10/ CRG-2	IFN-gamma	IL-6	IL-17A	M-CSF
CCL3/MIP-1 alpha	EGF	IL- 1 alpha/IL-1F1	IL-7	IL-18	TIMP-1
CCL4/MIP-1 beta	FGF-basic	IL-1 beta/IL-1F2	IL-9	IL-21	TNF-alpha
CCL5/RANTES	Flt-3 ligand	IL-1ra/IL-1F3	IL-10	IL-27	VEGF
CCL11/Eotaxin	G-CSF	IL-2	IL-11	IL-31	
CCL19/MIP-3beta	GDF-15	IL-3	IL-12 p70	LDL R	
Chitinase 3-like 1	GM-CSF	IL-4	IL-13	LIF	

TABLE // 04
R&D Systems Luminex®
High Performance Assays Continued

Non Human Primate XL Cytokine Panel, Premix FCSTM21, User Mix LNHPXL000					
BDNF	CXCL10/IP-10/ CRG-2	IFN- alpha	IL-6	IL-17/IL-17A	TNF- alpha
CCL2/JE/MCP-1	CXCL11/I-TAC	IFN- beta	IL-7	IL-21	VEGF
CCL5/RANTES	CXCL13/BLC/ BCA-1	IFN gamma	IL-8/CXCL8	MIP-1 beta	
CCL11/Eotaxin	FGF basic/FGF2/ bFGF	IL-1 beta/IL-1F2	IL-10	PD-L1/B7-H1	
CCL20/MIP-3 alpha	G-CSF	IL-2	IL-12 p70	PDGF-AA	
CD40 Ligand/ TNFSF5	GM-CSF	IL-4	IL-13	PDGF-BB	
CXCL2/GRO beta/ MIP-2/CINC-3	Granzyme B	IL-5	IL-15	TGF- alpha	

TABLE // 05
R&D Systems Luminex® Discovery Assays

Human Discovery Assay, Catalog # LXSAHM		
4-1BB/TNFRSF9/CD137	Angiopoietin-like Protein 4/ANGPTL4	CA125/MUC16
ADAMTS13	Angiopoietin-like Protein 6/ANGPTL6	CA15-3/MUC-1
Adiponectin/Acrp30	APP	Calbindin D
Aggrecan	APRIL/TNFSF13	Carbonic Anhydrase IX/CA9
AgRP/ART	Atrial Natriuretic Peptide/ANP	Cathepsin S
ALCAM/CD166	B7-H3	CCL1/I-309/TCA-3
Aldehyde Dehydrogenase 1-A1/ ALDH1A1	BAFF/BLyS/TNFSF13B	CCL2/JE/MCP-1
alpha 1-Microglobulin	BCMA/TNFRSF17	CCL3/MIP-1 alpha
alpha 2-Macroglobulin	BDNF	CCL4/MIP-1 beta
alpha-Fetoprotein/AFP	beta 2-Microglobulin	CCL5/RANTES
alpha-N-acetylglucosaminidase/ NAGLU	beta-NGF	CCL7/MCP-3/MARC
alpha-Synuclein	BMP-2	CCL8/MCP-2
Angiogenin	BMP-4	CCL11/Eotaxin
Angiopoietin-1	BMP-7	CCL13/MCP-4
Angiopoietin-2	BMP-9	CCL14/HCC-1/HCC-3
Angiopoietin-like Protein 3/ANGPTL3	BMP-10	CCL15/MIP-1 delta

TABLE // 05
R&D Systems Luminex®
Discovery Assays Continued

CCL17/TARC	Complement Factor D/Adipsin	EpCAM/TROP1
CCL18/PARC	Contactin-1	EphA2
CCL19/MIP-3 beta	C-Peptide	ErbB2/Her2
CCL20/MIP-3 alpha	C-Reactive Protein/CRP	ErbB3/Her3
CCL21/6Ckine	Cripto	E-Selectin/CD62E
CCL22/MDC	CX3CL1/Fractalkine	FABP4/A-FABP
CCL23/MPIF-1	CXCL1/GRO alpha/KC/CINC-1	Fas Ligand/TNFSF6
CCL24/Eotaxin-2/MPIF-2	CXCL2/GRO beta/MIP-2/CINC-3	Fas/TNFRSF6/CD95
CCL25/TECK	CXCL4/PF4	Ferritin
CCL26/Eotaxin-3	CXCL5/ENA-78	Fetuin A/AHSG
CCL27/CTACK	CXCL6/GCP-2	FGF acidic/FGF1
CCL28	CXCL7/NAP-2	FGF basic/FGF2/bFGF
CD14	CXCL9/MIG	FGF-13
CD23/Fc epsilon RII	CXCL10/IP-10/CRG-2	FGF-23
CD25/IL-2R alpha	CXCL11/I-TAC	Fibroblast Activation Protein alpha/FAP
CD27/TNFRSF7	CXCL13/BLC/BCA-1	Fibronectin
CD30/TNFRSF8	CXCL14/BRAK	Flt-3 Ligand/FLT3L
CD31/PECAM-1	CXCL16	Follistatin-like 1/FSTL1
CD40 Ligand/TNFSF5	Cystatin C	Follistatin-related Gene Protein/FLRG
CD40/TNFRSF5	DcR3/TNFRSF6B	Furin
CD44	D-dimer	Galectin-1
CD117/c-kit	Dkk-1	Galectin-3
CD163	DPPIV/CD26	Galectin-3BP/MAC-2BP
CEACAM-1/CD66a	DR3/TNFRSF25	Galectin-9
CEACAM-5/CD66e	EGF	Gas6
Chemerin	EMMPRIN/CD147	G-CSF
Chitinase 3-like 1	Endocan/ESM-1	GDF-15
Coagulation Factor III/Tissue Factor	Endoglin/CD105	GDNF
Coagulation Factor XIV/Protein C	Endostatin	GITR/TNFRSF18
Collagen IV alpha 1	Endothelin-1	GM-CSF
Complement Component C2	Enolase 2/Neuron-specific Enolase	gp130
Complement Component C5a	ENPP-2/Autotaxin	Granzyme A
Complement Component C9	EN-RAGE/S100A12	Granzyme B

TABLE // 05
R&D Systems Luminex®
Discovery Assays Continued

Growth Hormone	IL-12 p70	Lymphotoxin-alpha/TNF-beta
HB-EGF	IL-12/IL-23 p40	MAdCAM-1
HE4/WFDC2	IL-13	MBL
HGF	IL-15	MCAM/CD146
HGFR/c-MET	IL-16	M-CSF
HMW Adiponectin/Acrp30	IL-17/IL-17A	M-CSF R/CD115
HTRA2/Omi	IL-17C	Mesothelin
ICAM-1/CD54	IL-17E/IL-25	MFG-E8
IFN-alpha	IL-18/IL-1F4	MIA
IFN-beta	IL-19	MICA
IFN-gamma	IL-21	Midkine
IFN-gamma R1/CD119	IL-23	MIF
IGFBP-1	IL-27	MMP-1
IGFBP-2	IL-28A/IFN-lambda 2	MMP-2
IGFBP-3	IL-28B/IFN-lambda 3	MMP-3
IGFBP-4	IL-31	MMP-7
IGFBP-6	IL-33	MMP-8
IGFBP-rp1/IGFBP-7	IL-34	MMP-9
IL-1 alpha/IL-1F1	IL-36 beta/IL-1F8	MMP-12
IL-1 beta/IL-1F2	Insulin	MMP-13
IL-1 RI	ITIH4	MSP/MST1
IL-1 RII	Kallikrein 3/PSA	Myeloperoxidase/MPO
IL-1ra/IL-1F3	Kallikrein 5	Myoglobin
IL-2	Kallikrein 6/Neurosin	N-Cadherin
IL-3	Lactoferrin	NCAM-1/CD56
IL-4	LBP	Nectin-4
IL-4R alpha	Leptin R	Nephrin
IL-5	Leptin/OB	Neuregulin-1 beta 1/NRG1 beta 1
IL-6	LIF	Neuropilin-1
IL-6R alpha	LIGHT/TNFSF14	NT-3
IL-7	Lipocalin-2/NGAL	NT-4
IL-8/CXCL8	LRG1	Oncostatin M/OSM
IL-10	L-Selectin/CD62L	Osteoactivin/GPNMB
IL-11	Lumican	Osteopontin/OPN

TABLE // 05
R&D Systems Luminex®
Discovery Assays Continued

Osteoprotegerin/TNFRSF11B	SCGF/CLEC11a	TNF-alpha
Park7/DJ-1	Serpin A10/ZPI	Total Inhibin
PBEF/Visfatin	Serpin A12	TRACP/PAP/ACP5
PDGF-AA	Serpin A4/Kallistatin	TRAIL R2/TNFRSF10B
PDGF-AB	Serpin A7/TBG	TRAIL R3/TNFRSF10C
PDGF-BB	Serpin B3/SCCA1	TRAIL/TNFSF10
PDGF-CC	Serpin C1/Antithrombin-III	TRANCE/TNFSF11/RANK L
PDGF-DD	Serpin E1/PAI-1	TREM-1
PD-L1/B7-H1	Serpin F1/PEDF	Troponin I
Pentraxin 2/SAP	SHBG	TSLP
Pentraxin 3/TSG-14	SLPI	UCH-L1/PGP9.5
Periostin/OSF-2	SOST/Sclerostin	ULBP-1
PLA2G7/PAF-AH/Lp-PLA2	SPARC	ULBP-2/5/6
PIGF	SP-D	ULBP-3
Procalcitonin	ST2/IL-33R	ULBP-4/RAET1E
Pro-Collagen I alpha 1	Stanniocalcin 1/STC-1	uPAR
Progranulin/PGRN	Syndecan-1/CD138	u-Plasminogen Activator (uPA)/Urokinase
Prolactin	Syndecan-4	Uromodulin
Properdin	TACI/TNFRSF13B	Uteroglobin/SCGB1A1
Proprotein Convertase 9/PCSK9	Tau	VAP-1/AOC3
Protein S/PROS1	Tenascin C	VCAM-1/CD106
Proteinase 3/Myeloblastin/PRTN3	TFF3	VEGF
P-Selectin/CD62P	TFPI	VEGF-C
RAGE/AGER	TfR (Transferrin R)	VEGFR1/Flt-1
RBP4/Retinol-Binding Protein 4	TGF-alpha	VEGFR2/KDR/Fik-1
Reg3A	Thrombomodulin/BDCA-3	VEGFR3/Flt-4
Relaxin-2	Thrombopoietin/Tpo	Vitamin D BP
Renin	Thrombospondin-2	vWF-A2
Resistin	Thymidine Kinase 1	
ROBO4	Tie-2	
S100A8	TIM-1/KIM-1/HAVCR	
S100A9	TIMP-1	
S100B	TNF RI/TNFRSF1A	
SCF/c-kit Ligand	TNF RII/TNFRSF1B	

TABLE // 05
R&D Systems Luminex®
Discovery Assays Continued

Mouse Discovery Assay, Catalog # LXSAMSM		
Adiponectin/Acrp30	Endoglin/CD105	IL-33
Angiopoietin-2	FABP4/A-FABP	LDLR
BAFF/BLyS/TNFSF13B	Fas Ligand/TNFSF6	LIX
beta-NGF	FGF basic/FGF2/bFGF	M-CSF
C1qR1/CD93	FGF-21	MMP-2
CCL2/JE/MCP-1	G-CSF	MMP-3
CCL3/MIP-1 alpha	GDF-15	MMP-8
CCL4/MIP-1 beta	GM-CSF	MMP-9
CCL5/RANTES	Granzyme B	MMP-12
CCL7/MCP-3/MARC	Haptoglobin	Nephrin
CCL8/MCP-2	HGF	Oncostatin M/OSM
CCL11/Eotaxin	ICAM-1/CD54	Osteopontin/OPN
CCL12/MCP-5	IFN-gamma	Osteoprotegerin/TNFRSF11B
CCL19/MIP-3 beta	IGFBP-1	PDGF-AA
CCL20/MIP-3 alpha	IGFBP-3	PDGF-BB
CCL21/6Ckine	IGF-I/IGF-1	Periostin/OSF-2
CCL22/MDC	IL-1 alpha/IL-1F1	PIGF-2
Chitinase 3-like 1	IL-1 beta/IL-1F2	Podocalyxin
Complement Factor D/Adipsin	IL-2	Prolactin
C-Reactive Protein/CRP	IL-3	Proprotein Convertase 9/PCSK9
CXCL1/GRO alpha/KC/CINC-1	IL-4	P-Selectin/CD62P
CXCL2/GRO beta/MIP-2/CINC-3	IL-5	Renin
CXCL9/MIG	IL-6	Resistin
CXCL10/IP-10/CRG-2	IL-6R alpha	S100A8
CXCL12/SDF-1 alpha	IL-7	S100A9
CXCL13/BLC/BCA-1	IL-9	Serpin E1/PAI-1
CXCL16	IL-10	SOST/Sclerostin
Cystatin C	IL-12 p70	SP-D
Dkk-1	IL-13	Syndecan-1/CD138
DPPIV/CD26	IL-16	Thrombospondin-4
EGF	IL-17/IL-17A	TIM-1/KIM-1/HAVCR
EGFR	IL-17E/IL-25	TIMP-1
EMMPRIN/CD147	IL-27	TIMP-4

TABLE // 05

R&D Systems Luminex®
Discovery Assays Continued

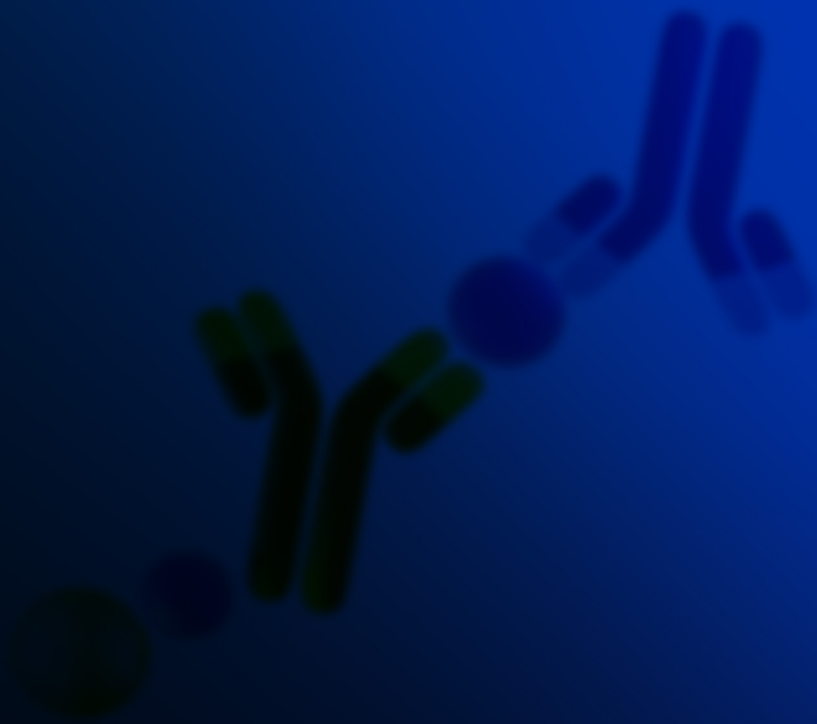
TNF RI/TNFRSF1A	TRANCE/TNFSF11/RANK L	VEGF
TNF RII/TNFRSF1B	TWEAK/TNFSF12	VEGFR2/KDR/Fik-1
TNF-alpha	uPAR	
Rat Discovery Assay, Catalog # LXSARM		
CXCL1/GRO alpha/KC/CINC-1	IL-1 alpha/IL-1F1	IL-13
CXCL2/GRO beta/MIP-2/CINC-3	IL-1 beta/IL-1F2	IL-18/IL-1F4
CXCL3/GRO gamma/CINC-2/DCIP-1	IL-2	L-Selectin/CD62L
GM-CSF	IL-4	TIMP-1
ICAM-1/CD54	IL-6	TNF-alpha
IFN-gamma	IL-10	VEGF
Porcine Discovery Assay, Catalog # LXSAPM		
CD31/PECAM-1	IL-1ra/IL-1F3	IL-18/IL-1F4
CD34	IL-2	MMP-1
C-Reactive Protein/CRP	IL-4	PDGF-BB
GM-CSF	IL-6	Serpin E1/PAI-1
IFN-gamma	IL-8/CXCL8	TNF-alpha
IL-1 alpha/IL-1F1	IL-10	
IL-1 beta/IL-1F2	IL-12	

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