



Bio-Rad Bio-Plex® Assays

For a complete selection of assays, catalog numbers, literature, guides, and other information, go to www.bio-rad.com/bio-plex/

Human Bio-Plex Pro™ Assays

Human Cytokine, Chemokine, Growth Factor, and Diabetes Assays on **Magnetic Beads**

Human Group I	8-Plex A Panel (M50-000007A)	17-Plex Panel (M50-00031YV)	27-Plex Panel (M50-0KCAF0Y)	Th1/Th2 Panel (M50-00005L3)	Singleplex/x-Plex Bead Regions
IL-1β		●	●		● 39
IL-1ra			●		● 25
IL-2	●	●	●	●	● 38
IL-4	●	●	●	●	● 52
IL-5		●	●	●	● 33
IL-6	●	●	●		● 19
IL-7		●	●		● 74
IL-8	●	●	●		● 54
IL-9			●		● 77
IL-10	●	●	●	●	● 56
IL-12 (p70)		●	●	●	● 75
IL-13		●	●	●	● 51
IL-15			●		● 73
IL-17A		●	●		● 76
Basic FGF			●		● 44
Eotaxin			●		● 43
G-CSF		●	●		● 57
GM-CSF	●	●	●	●	● 34
IFN-γ	●	●	●	●	● 21
IP-10			●		● 48
MCP-1 (MCAF)		●	●		● 53
MIP-1α			●		● 55
MIP-1β		●	●		● 18
PDGF-BB			●		● 47
RANTES			●		● 37
TNF-α	●	●	●	●	● 36
VEGF			●		● 45

Human Group II	21-Plex Panel (M50-005KMII)	Singleplex/x-Plex Bead Regions
IL-1α	●	● 63
IL-2Rα	●	● 13
IL-3	●	● 64
IL-12 (p40)	●	● 28
IL-16	●	● 27
IL-18**	●	● 42
CTACK	●	● 72
GRO-α	●	● 61
HGF	●	● 62
ICAM-1***		● 12
IFN-α2	●	● 20
LIF	●	● 29
MCP-3	●	● 26
M-CSF	●	● 67
MIF	●	● 35
MIG	●	● 14
β-NGF	●	● 46
SCF	●	● 65
SCGF-β	●	● 78
SDF-1α	●	● 22
TNF-β	●	● 30
TRAIL	●	● 66
VCAM-1***		● 15

** IL-18 is not available as a singleplex assay, only as part of an assay panel.

*** This assay requires additional sample dilution.

Human TGF-β	3-Plex Panel (171-W4001M)	Singleplex/x-Plex Bead Regions
TGF-β1	●	● 13
TGF-β2	●	● 72
TGF-β3	●	● 66

Human Disease Panels on Magnetic Beads

Precision Pro™ Human Cytokines (171-A1001P)	Human Isotyping (171-A3S01M)
IL-1β	IgG ₁
IL-2	IgG ₂
IL-4	IgG ₃
IL-5	IgG ₄
IL-6	IgM
IL-10	IgA
IL-12 (p70)	IgE
IL-13	
IFN-γ	
TNF-α	
Human Acute Phase (171-A4S07M)	Human Angiogenesis (171-A4S11M)
α-2-macroglobulin	Angiopoietin-2
CRP	Follistatin
Ferritin	G-CSF
Fibrinogen	HGF
Haptoglobin	IL-8
Procalcitonin	Leptin
SAA	PDGF-BB
SAP	PECAM-1
Tissue plasminogen activator	VEGF

Human Diabetes	10-Plex Panel (171-A7001M)	Singleplex/x-Plex Bead Regions
Adiponectin***		● 64
Adipsin***		● 35
C-Peptide	●	● 72
Ghrelin	●	● 26
GIP	●	● 14
GLP-1	●	● 27
Glucagon	●	● 15
Insulin	●	● 12
Leptin	●	● 78
PAI-1	●	● 61
Resistin	●	● 65
Visfatin	●	● 22

*** This assay requires additional sample dilution.

NEW!

Human Cancer Panel 1	16-Plex Panel (171-AC500M)	Singleplex/x-Plex Bead Regions
sEGFR	●	● 15
FGF-basic	●	● 44
Follistatin	●	● 26
G-CSF	●	● 57
HGF	●	● 62
sHER2/neu	●	● 12
sIL-6Rα	●	● 19
Leptin	●	● 78
Osteopontin	●	● 77
PECAM-1	●	● 46
PDGF-AB/BB	●	● 47
Prolactin	●	● 52
SCF	●	● 65
sTIE-2	●	● 64
sVEGFR-1	●	● 76
sVEGFR-2	●	● 45

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Mouse Bio-Plex Pro™ Assays

Mouse Cytokine, Chemokine, Growth Factor, and Diabetes Assays on **Magnetic Beads**

Mouse Group I	8-Plex A Panel (M60-00007A)	23-Plex Panel (M60-009RDPD)	Th1/Th2 Panel (M60-00003J7)	Th17 6-Plex (M60-00007NY)	Singleplex/ x-Plex Bead Regions
IL-1 α		●			● 53
IL-1 β	●	●		●	● 19
IL-2	●	●	●		● 36
IL-3		●			● 18
IL-4	●	●	●		● 39
IL-5	●	●	●		● 52
IL-6		●		●	● 38
IL-9		●			● 33
IL-10	●	●	●	●	● 56
IL-12p40		●			● 76
IL-12p70		●	●		● 78
IL-13		●			● 37
IL-17A	●			●	● 72
Eotaxin		●			● 74
G-CSF		●			● 54
GM-CSF	●	●	●		● 73
IFN- γ	●	●	●	●	● 34
KC		●			● 57
MCP-1(MCAF)		●			● 51
MIP-1 α		●			● 77
MIP-1 β		●			● 75
RANTES		●			● 55
TNF- α	●	●	●	●	● 21

Mouse Diabetes	8-Plex Panel (171-F7001M)	Singleplex/ x-Plex Bead Regions
Adiponectin***		● 29
Ghrelin	●	● 64
GIP	●	● 46
GLP-1	●	● 62
Glucagon	●	● 63
Insulin	●	● 66
Leptin	●	● 65
PAI-1	●	● 48
Resistin	●	● 30

*** This assay requires additional sample dilution.

Mouse Group II	9-Plex Panel (MD0-00000EL)	Singleplex/ x-Plex Bead Regions
IL-15	●	● 42
IL-18**	●	● 20
Basic FGF	●	● 25
LIF	●	● 45
M-CSF	●	● 26
MIG	●	● 44
MIP-2	●	● 27
PDGF-BB	●	● 35
VEGF	●	● 47

** IL-18 is not available as a singleplex assay, only as part of an assay panel.

NEW!

Mouse Group III	TH17 8-Plex (171-FA001M)	Singleplex/ x-Plex Bead Regions
CD40L	●	● 30
IL-17E(IL-25)*		● 67
IL-17F	●	● 28
IL-21	●	● 14
IL-22	●	● 15
IL-23p19	●	● 61
IL-27p28*		● 43
IL-31	●	● 29
IL-33	●	● 13
ICAM**		● 22
MIP-3a	●	● 12

*IL-17E, IL-27p28, and ICAM are singleplex only.

**This assay requires additional sample dilution.

Mouse TGF- β	3-Plex Panel (171-W4001M)	Singleplex/ x-Plex Bead Regions
TGF- β 1	●	● 13
TGF- β 2	●	● 72
TGF- β 3	●	● 66

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Rat Bio-Plex Pro™ Assays

NEW! Rat Cytokine, Chemokine, Growth Factor, and Diabetes Assays on **Magnetic Beads**

Rat Group I	23-Plex Panel (171-K1001M)	Th1/Th2 Panel (171-K1002M)	Singleplex/ x-Plex Bead Regions
EPO	●		● 14
G-CSF	●		● 54
GM-CSF*	●	●	● 37
Gro/KC	●		● 57
IFN-γ*	●	●	● 34
IL-1α*	●	●	● 21
IL-1β*	●	●	● 28
IL-2*	●	●	● 22
IL-4*	●	●	● 33
IL-5	●	●	● 52
IL-6*	●	●	● 56
IL-7	●		● 38
IL-10	●	●	● 19
IL-12p40**			● 76
IL-12p70	●	●	● 78
IL-13	●	●	● 15
IL-17	●		● 72
IL-18	●		● 20
M-CSF	●		● 26
MIP-1α	●		● 77
MIP-2**			● 27
MIP-3α	●		● 36
RANTES	●		● 55
TNF-α	●	●	● 43
VEGF	●		● 47

Rat TGF-β	3-Plex Panel (171-W4001M)	Singleplex/ x-Plex Bead Regions
TGF-β1	●	● 13
TGF-β2	●	● 72
TGF-β3	●	● 66

*Targets pre-existed in non-magnetic 9-plex.

**Due to cross-reactivity IL-12p40 and MIP-2 are singleplex only.

Rat Diabetes	Singleplex/ x-Plex Bead Regions
Ghrelin	● 64
GLP-1	● 62
Glucagon	● 63
Leptin	● 65
PAI-1	● 61

Bio-Plex Pro Kit Format Options for Assays on Magnetic Beads

- | | | |
|--|---|---|
| <p>1 Bio-Plex Express
For faster delivery, customized assay panels, not – premixed, researcher mixes beads and detection antibody at bench, are available as 1-10 plex or 1-20 plex depending on panel. Design custom assay with the Bio-Plex Assay Builder at www.bio-rad.com/bio-plex/</p> | <p>2 Bio-Plex X-Plex
Custom, pre-mixed assay panels, no plex limitation, 2 plate minimum for 6-plex or less. Design custom assay with the Bio-Plex Assay Builder at www.bio-rad.com/bio-plex/</p> | <p>3 Bio-Plex Multiplex Panels
Off-the-shelf pre-mixed assay panels. These are ready to order premixed assays. Refer to catalog numbers listed in the charts on flier.</p> |
|--|---|---|

Each Bio-Plex Pro Panel includes coupled magnetic beads, detection antibodies, standards, assay buffer, wash buffer, detection antibody diluent, streptavidin-PE, filter plate and/or a flat bottom plate for magnetic separation, sealing tape, standard diluent, and sample diluent. Kit components are also available “a la carte”: beads + antibody, standards, and Bio-Plex Pro reagent kit are all sold separately.

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Multispecies Bio-Plex Signal Transduction Assays on Non-Magnetic Beads

Available Assays

Assays	Phosphoprotein	Total
Akt Signaling		
Akt (Ser ⁴⁷³)	●	●
GSK-3α/β (Ser ²¹ /Ser ⁹)	●	
Cell Cycle/Checkpoint Control		
p53 (Ser ¹⁵)	●	●
p53 (Ser ³⁷)	●	●
p53 (Ser ⁴⁶)	●	●
Chromatin Regulation/Acetylation		
Histone H3 (Ser ¹⁰)	●	
Immunology/Inflammation		
IκB-α (Ser ³² /Ser ³⁶)	●	●
NF-κB p65 (Ser ⁵³⁶)	●	
STAT2 (Tyr ⁶⁸⁹)	●	
STAT3 (Ser ⁷²⁷)	●	
STAT3 (Tyr ⁷⁰⁵)	●	
STAT6 (Tyr ⁶⁴¹)	●	
Tyk2 (Tyr ¹⁰⁵⁴ /Tyr ¹⁰⁵⁵)	●	
Glucose/Energy Metabolism		
IGF-IR (Tyr ¹¹³¹)	●	
IR-β (Tyr ¹¹⁴⁶)	●	
IRS-1 (Ser ⁶³⁶ /Ser ⁶³⁹)	●	

Assays	Phosphoprotein	Total
MAP Kinase Signaling		
ATF-2 (Thr ⁷¹)	●	●
c-Jun (Ser ⁶³)	●	●
ERK1 (Thr ²⁰² /Tyr ²⁰⁴)	●	
ERK2 (Thr ¹⁸⁵ /Tyr ¹⁸⁷)	●	●
ERK1/2 (Thr ²⁰² /Tyr ²⁰⁴ , Thr ¹⁸⁵ /Tyr ¹⁸⁷)	●	●
HSP27 (Ser ⁷⁸)	●	●
JNK (Thr ¹⁸³ /Tyr ¹⁸⁵)	●	●
MEK1 (Ser ²¹⁷ /Ser ²²¹)	●	●
p38 MAPK (Thr ¹⁸⁰ /Tyr ¹⁸²)	●	●
p90RSK (Thr ³⁵⁹ /Ser ³⁶³)	●	●
Neuroscience		
CREB (Ser ¹³³)	●	●
TrkA (Tyr ⁴⁹⁰)	●	
Translational Control		
p70 S6 kinase (Thr ⁴²¹ /Ser ⁴²⁴)	●	
S6 ribosomal protein (Ser ²³⁵ /Ser ²³⁶)	●	
Tyrosine Kinases		
Bcr-Abl (Tyr ²⁴⁵)	●	●
c-Abl (Tyr ²⁴⁵)	●	
c-Abl (Tyr ⁴¹²)	●	
EGFR (Tyr)	●	
PDGF receptor-β (Tyr ⁷⁵¹)	●	
Src (Tyr ⁴¹⁶)	●	

Specifications*

Reactive species	Human, mouse, rat, monkey
Matrices	Cell culture lysate, tissue lysate
Sample volume	25 µl
Limit of detection	<10 µg/ml of total protein
Precision	
Intra-assay CV	<15%
Inter-assay CV	<25%
Multiplexing capability	Yes
Storage conditions	2–8°C for coupled beads and detection antibodies –20°C for lysates (shipped separately)
Stability**	12 months

* Values vary by assay.

** Check label for expiration date.



Items for Performing a Phosphoprotein and Total Target Assays

- Bio-Plex phosphoprotein assays and Bio-Plex total target assays** — includes coupled beads, detection antibodies, and lysates to test for specific proteins of interest in lysate samples.
- Bio-Plex cell lysis kit (171-304011)** — includes cell lysis buffer, cell wash buffer, factor 1 and factor 2; essential for optimal lysis of your cell culture or tissue samples.
- Bio-Plex phosphoprotein detection reagent kit (171-304004)** — includes assay buffer, wash buffer, antibody diluent, resuspension buffer, streptavidin-PE, 96-well filter plate, sealing tape, and instructions required to prepare assays and acquire data.

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