

MILLIPLEX® Qualified Assays

HUMAN

Immunology

Human Cytokine/Chemokine/ Growth Factor Panel A

☐ (Cat. No. HCYTA-60K)

38 (Cat. No. HCYTA-60K-PX38)♦

38 (Cat. No. HCYTA-60K-PXBK38)♦

48 (Cat. No. HCYTA-60K-PX48)

48 (Cat. No. HCYTA-60K-PXBK48)

sCD40L	IL-13♦
EGF♦	IL-15♦
Eotaxin/CCL11♦	IL-17A/CTLA8♦
FGF-2/FGF-basic	IL-17E/IL-25♦
Flt3 Ligand	IL-17F♦
Fractalkine/CX3CL1	IL-18♦
G-CSF♦	IL-22♦
GM-CSF♦	IL-27
GROα	IP-10/CXCL10♦
IFNα2♦	MCP-1/CCL2♦
IFNγ♦	MCP-3/CCL7
IL-1α♦	M-CSF♦
IL-1β♦	MDC/CCL22
IL-1RA♦	MIG/CXCL9♦
IL-2♦	MIP-1α/CCL3♦
IL-3♦	MIP-1β/CCL4♦
IL-4♦	PDGF-AA♦
IL-5♦	PDGF-AB/BB♦
IL-6♦	RANTES/CCL5♦▲*
IL-7♦	TGFα
IL-8/CXCL8♦	TNFα♦
IL-9	TNFβ/Lymphotoxin-α (LTA)♦
IL-10♦	VEGF-A♦
IL-12 (p40)♦	
IL-12 (p70)♦	

**Get both Human
Panel A and Panel B
premixed kits with
one catalog number!**

**76-Plex (Two 38-plex
premixed kits)**

Cat. No. HCYTPAB-76SK

**96-Plex (Two 48-plex
premixed kits)**

Cat. No. HCYTPAB-96SK

Kits cannot be combined.

Human Cytokine/Chemokine/ Growth Factor Panel B

☐ (Cat. No. HCYTB-60K)

38 (Cat. No. HCYTB-60K-PX38)♦

38 (Cat. No. HCYTB-60K-PXBK38)♦

48 (Cat. No. HCYTB-60K-PX48)

48 (Cat. No. HCYTB-60K-PXBK48)

6Ckine/CCL21♦	IL-28A/IFNλ2♦
APRIL♦	IL-29 /IFNλ1♦
BAFF/Blys♦	IL-31♦
BCA-1/CXCL13♦	IL-33/NF-HEV (mature)♦
CCL28	IL-34
sCD137/4-1BB/ TNFRSF9♦	IL-35
CTACK/CCL27♦	IFNβ♦
CXCL6/GCP-2	IFNω♦
CXCL16	I-TAC/CXCL11♦
ENA-78/CXCL5♦	LIF♦
Eotaxin-2/CCL24/ MPIF-2♦	Lymphotoxin/XCL1
Eotaxin-3/CCL26♦	MCP-2/CCL8♦
sFAS/TNFRSF6♦	MCP-4/CCL13♦
sFASL♦	MIP-1δ /MIP-5/ CCL15♦
Granzyme A♦	MIP-3α/CCL20♦
Granzyme B♦	MIP-3β/CCL19
HMGB1♦	MPIF-1/CCL23
I-309/CCL1♦	Perforin♦
IL-11	SCF♦
IL-16♦	SDF-1/CXCL12♦
IL-20♦	TARC/CCL17♦
IL-21♦	TPO♦
IL-23♦	TRAIL/TNFSF10♦
IL-24	TSLP♦

Human High Sensitivity T Cell

☐ (Cat. No. HSTCMAG-28SK)

15 (Cat. No. HSTCMAG28SPMX13)♦

15 (Bulk Cat. No. HSTCMAG28PMX13BK)♦

21 (Cat. No. HSTCMAG28SPMX21)

21 (Bulk Cat. No. HSTCMAG28PMX21BK)

Fractalkine/CX3CL1	IL-12 (p70)♦
GM-CSF♦	IL-13♦
IFNγ♦	IL-17A/CTLA8
IL-1β♦	IL-21
IL-2♦	IL-23
IL-4♦	I-TAC/CXCL11
IL-5♦	MIP-1α/CCL3
IL-6♦	MIP-1β/CCL4
IL-7♦	MIP-3α/CCL20
IL-8/CXCL8♦	TNFα♦
IL-10♦	

384-Well Human High Sensitivity T Cell

(Cat. No. HSTC384-28K)

21 (Cat. No. HSTCMAG384-PX21)

21 (Bulk Cat. No. HSTCMAG384PX21BK)

Fractalkine/CX3CL1	IL-12 (p70)
GM-CSF	IL-13
IFNγ	IL-17A/CTLA8
IL-1β	IL-21
IL-2	IL-23
IL-4	I-TAC/CXCL11
IL-5	MIP-1α/CCL3
IL-6	MIP-1β/CCL4
IL-7	MIP-3α/CCL20
IL-8/CXCL8	TNFα
IL-10	

Human Th17

(Cat. No. HTH17MAG-14K)

25 (Cat. No. HT17MG-14K-PX25)

25 (Bulk Cat. No. HT17MAG14PMX25BK)

GM-CSF	IL-17E/IL-25
IFNγ	IL-17F
IL-1β	IL-21
IL-2	IL-22
IL-4	IL-23
IL-5	IL-27
IL-6	IL-28A/IFNλ2
IL-9	IL-31
IL-10	IL-33/NF-HEV (mature)
IL-12 (p70)	MIP-3α/CCL20
IL-13	TNFα
IL-15	TNFβ/Lymphotoxin-α (LTA)
IL-17A/CTLA8	

Human CD8+ T Cell

☐ (Cat. No. HCD8MAG-15K)

17 (Cat. No. HCD8MAG15K17PMX)

17 (Bulk Cat. No. HCD8MAG15K17BK)

sCD137/4-1BB/ TNFRSF9	IL-4
sFAS/TNFRSF6	IL-5
sFasL	IL-6
GM-CSF	IL-10
Granzyme A	IL-13
Granzyme B	MIP-1α/CCL3
IFNγ	MIP-1β/CCL4
IL-2	Perforin
	TNFα

MILLIPLEX® Immunology Kits

Profile more immune biomarkers faster with MILLIPLEX® multiplex immunoassays.
Learn more at SigmaAldrich.com/milliplex-immunology



Legend key for MILLIPLEX® kits

† Analytes which cannot be plexed together:
– Active and total
– Free and total

♦ Available in Cat. No. listed

▼ Premix panel only

Bulk indicates Space Saver Packaging

▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

▶ Requires a protease inhibitor during sample collection

■ Requires sample extraction

** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)

● Serum/Plasma only

★ Tissue Culture samples only

^ Competitive assay format

☐ Available for custom premix

° Analyte requires a different sample dilution from others in panel

○ Analyte cannot be measured in serum

Requires sample acidification

§ Analyte cannot be measured in plasma

u Urine only

Human Interferon

(Cat. No. HIFN-130K)

9 (Cat. No. HIFN-130K-PMX9)

IFNα2	IFNε
IFNβ	IFNω
IFNγ	IL-28A/IFNλ2
IFNγ Receptor 1 (IFNGR1)	IL-28B/IFNλ3
	IL-29/IFNλ1

Human Soluble Cytokine Receptor

(Cat. No. HSCRMAG-32K)

14 (Cat. No. HSCRMAG32KPX14)

14 (Bulk Cat. No. HSCRMAG32PMX14BK)

sCD30	sIL-6R
sEGFR/sHER1/ErbB1	sRAGE
sGP130	sTNF RI
sIL-1RI	sTNF RII
sIL-1RII	sVEGFR1/sFlt-1
sIL-2Ra	sVEGFR2/sKDR/sFlk-1
sIL-4R	sVEGFR3/sFlt-4

Human Cytokine/Chemokine Panel III

(Cat. No. HCYP3MAG-63K)

HCC-1/CCL14▲	M-CSF
IL-11	MIG/CXCL9
IL-29/IFNλ1	MIP-3α/CCL20
I-TAC/CXCL11	MIP-3β/CCL19
CXCL6/GCP-2	NAP-2/CXCL7▲
Lymphotactin/XCL1	

Human Cytokine/Chemokine Panel IV

20 (Cat. No. HCYP4MAG-64K)

20 (Cat. No. HCY4MG-64K-PX20)

20 (Bulk Cat. No. HCP4MG64KPX20BK)

BAFF/Blys	IL-28B/IFNλ3
BRAK/CXCL14	IL-32α
CCL28	IL-34
CXCL16	IL-35
HCC-4/CCL16	IL-36β/IL-1F8
HMGB1●	IL-37/IL-1F7
IFNβ	IL-38/IL-1F10
IL-14/α-Taxilin	MIP-4/PARC/CCL18
IL-19	MPIF/CCL23
IL-24	YKL40/CHI3L1

Human IL-18 Singleplex

(Cat. No. HIL18MAG-66K)

IL-18

Human Complement Expanded Panel 1

20 (Cat. No. HCMPEX1-19K)

Adipsin/Factor D	C9
C2	Factor I
C4b	Mannose-Binding Lectin (MBL)
C5	Properdin
C5a	

Human Complement Panel 2

20 (Cat. No. HCMP2MAG-19K)

C1q	C4
C3	Factor B
C3b	Factor H

Human Complement C5b-9 Singleplex

(Cat. No. HC5B9-140K)

C5b-9

Human MMP Panel 1

(Cat. No. HMMP1MAG-55K)

MMP-3	MMP-13
MMP-12	

Human MMP Panel 2

(Cat. No. HMMP2MAG-55K)

MMP-1	MMP-9
MMP-2	MMP-10
MMP-7	

Human TIMP Panel 1 (Serum/Plasma samples)

(Cat. No. HTMP1MAG-54K)

TIMP-1	TIMP-2
--------	--------

Human TIMP Panel 2 (Cell culture samples)

(Cat. No. HTMP2MAG-54K)

TIMP-1	TIMP-3
TIMP-2	TIMP-4

Human Fibrosis Panel 1

(Cat. No. HFIB1-100K)

COMP	Uteroglobin
IL-18BPα	

Immune Response**Human Autoimmune Autoantibody IgG****

(Cat. No. HAIAB-10K)

QUALITATIVE KIT

β2-Glycoprotein	PM/Sci 100
C1q	Proteinase 3
CENP-A	Ribosomal P
CENP-B	RNP
Jo-1	RNP/Sm
Ku	Sci-70
Mi-2	Sm
Myeloperoxidase (MPO)	SSA/Ro52
PCNA	SSA/Ro60
PL-12 (Alanyl-tRNA Synthetase)	SSB/La

Human Cytokine Autoantibody Expanded IgG, IgA, and IgM **

IgG (Cat. No. HCYTABG-17K)

IgA (Cat. No. HCYTABA-17K)

IgM (Cat. No. HCYTABM-17K)

QUALITATIVE KIT

BAFF/Blys	IL-8/CXCL8
G-CSF	IL-10
GM-CSF	IL-12 (p40)
IFNα2	IL-15
IFNβ	IL-17A/CTLA8
IFNγ	IL-17F
IFNω	IL-18
IL-1α	IL-22
IL-2	Osteopontin
IL-3	PF4
IL-4	TNFα
IL-6	

Human Sepsis Panel 1

(Cat. No. HSP1MAG-63K)

sFAS/TNFRSF6	MIF
sFasL	PAI-1 (total)
sICAM-1	sVCAM-1

Human Sepsis Panel 2

(Cat. No. HSP2MAG-63K)

Granzyme B	MIP-1α/CCL3
HSP70	MIP-1β/CCL4
IL-1α	MMP-8
IL-8/CXCL8	

Human Sepsis Panel 3

(Cat. No. HSP3MAG-63K)

Lactotransferrin (LTF)	Resistin
Neutrophil Elastase-2 (ELA2)	Thrombospondin-1 (TSP-1)
NGAL/Lipocalin-2	

MILLIPLEX® Autoantibody Profiling

Discover the benefits of multiplexing autoantibodies at
SigmaAldrich.com/milliplex-autoab



Human Immunoglobulin Isotyping

☑ (Cat. No. HGAMMAG-301K)

IgA	IgG3
IgG1	IgG4
IgG2	IgM

Human IgE – Singleplex

(Cat. No. HGAMMAG-303E)

IgE

Virology**AAV Serotyping Panel IgG******NEW**

(Cat. No. AAVSERG-230K)

QUALITATIVE KIT

AAV1	AAV6
AAV2	AAV8
AAV5	AAV9

SARS-CoV-2 Antigen Panel 1 IgA**

(Cat. No. HC19SERA1-85K)

QUALITATIVE KIT

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

SARS-CoV-2 Antigen Panel 1 IgG**

(Cat. No. HC19SERG1-85K)

QUALITATIVE KIT

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

SARS-CoV-2 Antigen Panel 1 IgM**

(Cat. No. HC19SERM1-85K)

QUALITATIVE KIT

SARS-CoV-2 N	SARS-CoV-2 Spike S1
SARS-CoV-2 RBD	SARS-CoV-2 Spike S2

For Research Use Only. Not For Use In Diagnostic Procedures.**Metabolism/Endocrinology****Human Adipokine Panel 1 (Serum/Plasma samples)**

(Cat. No. HADK1MAG-61K)

Adiponectin	PAI-1 (total)
Adipsin/Factor D	Resistin
NGAL/Lipocalin-2	

Human Adipokine Panel 2 (Serum/Plasma samples)

(Cat. No. HADK2MAG-61K)

IL-1β	Leptin
IL-6	MCP-1/CCL2
IL-8/CXCL8	NGF
Insulin	TNFα

Human Adipocyte (Cell culture samples)

(Cat. No. HADCYMAG-61K)

Adiponectin	MCP-1/CCL2
HGF	NGF
IL-1β	PAI-1 (total)
IL-6	Resistin
IL-8/CXCL8	TNFα
Leptin	

Human Metabolic Hormone V3

(Cat. No. HMH3-34K)

Amylin (active) †‡	Insulin
Amylin (total) †‡	Leptin
C-Peptide	MCP-1/CCL2
Ghrelin (active) †‡	Pancreatic Polypeptide (PP)
GIP (total)	PYY (total)
GLP-1 (active) †‡	Secretin
GLP-1 (total) †‡	TNFα
Glucagon †‡	
IL-6	

Human Myokine

(Cat. No. HMYOMAG-56K)

Apelin	IL-15
BDNF	Irisin
Erythropoietin (EPO)	LIF
FABP3	Myostatin/GDF8
FGF-21	Oncostatin-M (OSM)
Fractalkine/CX3CL1	Osteocrin (OSTN)/Musclin
FSTL1	Osteonectin/SPARC
IL-6	

Human Aging Panel 1

(Cat. No. HAGE1MAG-20K)

CTACK/CCL27	IL-6
FGF-21	IL-10*
GDF-11	IL-18
GDF15	Jag1
GnRH	Leptin

Human Liver Protein

(Cat. No. HLPPMAG-57K)

α-Fetoprotein (AFP)	FGF-19
ANGPTL3	FGF-21
ANGPTL4	FGF-23
ANGPTL6	HGF
FABP1	

Human IGF Binding Protein

(Cat. No. HIGFBMAG-53K)

IGFBP1	IGFBP5
IGFBP2	IGFBP6
IGFBP3*	IGFBP7
IGFBP4	

Human IGF

(Cat. No. HIGFMAG-52K)

IGF-1	IGF-2
-------	-------

Human Pituitary Panel 1

(Cat. No. HPTP1MAG-66K)

ACTH	FSH
Agouti-Related Protein (AgRP)	GH
	LH
CNTF	TSH

Cardiovascular**Human CVD Panel 1**

(Cat. No. HCVD1MAG-67K)

BNP	LIGHT
CK-MB	NT proBNP
CXCL6/GCP-2	Oncostatin-M (OSM)
CXCL16	Placental Growth Factor (PIGF)
Endocan-1 (ESM-1)	Troponin I (TnI)
FABP3	
FABP4	

Human CVD Panel 2

(Cat. No. HCVD2MAG-67K)

ADAMTS13	Myoglobin
D-dimer ^s	NGAL/Lipocalin-2
GDF15	sP-Selectin
sICAM-1	Serum Amyloid A
Myeloperoxidase (MPO)	sVCAM-1

Human CVD Panel 3 (Acute Phase)

(Cat. No. HCVD3MAG-67K)

α-1-Acid Glycoprotein (AGP)	Haptoglobin
α-2-Macroglobulin	sL-Selectin
Adipsin/Factor D	Platelet Factor 4 (PF4)/CXCL4
CRP	Serum Amyloid P (SAP)
Fetuin A	
Fibrinogen ^u	

Legend key for MILLIPLEX® kits

† Analytes which cannot be plexed together:
– Active and total
– Free and total

♦ Available in Cat. No. listed

▼ Premix panel only

Bulk indicates Space Saver Packaging

▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

‡ Requires a protease inhibitor during sample collection

■ Requires sample extraction

** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)

● Serum/Plasma only

★ Tissue Culture samples only

^ Competitive assay format

☑ Available for custom premix

° Analyte requires a different sample dilution from others in panel

○ Analyte cannot be measured in serum

Requires sample acidification

^s Analyte cannot be measured in plasma

^u Urine only

Human CVD Panel 4

(Cat. No. HCVD4MAG-67K)

sCD31/sPECAM-1	Thrombomodulin
sE-Selectin	Tissue Factor (TF)
Follistatin (FST)	Troponin T (TnT)
Pentraxin-3 (PTX3)	

Human CVD Panel 6

(Cat. No. HCVD6MAG-67K)

sCD14	MCAM/MUC18
DPP4	Progranulin (pGRN)
Endostatin	ucMGP
LRG1	

Human Apolipoprotein

(Cat. No. APOMAG-62K)

Apo AI	Apo CII
Apo AII	Apo CIII
Apo B	Apo E

Bone**Human Bone**

(Cat. No. HBNMAG-51K)

ACTH	Osteocalcin (OC)
DKK1	Osteopontin (OPN)
FGF-23	Osteoprotegerin (OPG)
IL-1 β	PTH
IL-6	Sclerostin (SOST)
Insulin	TNF α
Leptin	

Human RANKL – Singleplex

(Cat. No. HRNKL MAG-51K-01)

RANKL

Cancer**Human Immuno-Oncology Checkpoint Protein Panel 1**

(Cat. No. HCKP1-11K)

① (Cat. No. HCKP1-11K-PX17)

② (Bulk Cat. No. HCKP1-11K-PXBK17)

BTLA	HVEM
CD27	ICOS
CD28	LAG-3
CD40	PD-1
CD80/B7-1	PD-L1
CD86/B7-2	PD-L2
CTLA-4/CD152	TIM-3
GITR	TLR-2
GITRL	

Human Immuno-Oncology Checkpoint Protein Panel 2

(Cat. No. HCKP2-11K)

4-1BBL/TNFSF9	FGL1/Hepassocin
5'-NT/CD73	Galectin-1
APRIL	Galectin-3
Arginase-1	Granulysin
B7-H2/ICOSL	Granzyme B
B7-H3/CD276	IDO1
B7-H4/VTCN1	MICA
B7-H5/VISTA	MICB
B7-H6	Nectin-2
BAFF/BLyS	Nectin-4
CD25/IL-2R α	OX40/CD134
CD30/TNFRSF8	Perforin
CD40L	PVR/CD155
CD137/4-1BB	Siglec-7
CD226/DNAM-1	Siglec-9
E-Cadherin	

Human Cancer Autoantibody IgG**

(Cat. No. HCABMAG-13K)

QUALITATIVE KIT

CCNB1/Cyclin B1	IGF2BP2/IMP2
CTAG1B/NY-ESO-1	IGF2BP3/IMP3
ENO1	Mucin-1 (MUC1)
Galectin-1 (GAL1)	P16-INK4a
Galectin-3 (GAL3)	p53
HER2/ErbB2	SOX2
HIF-1 α	Survivin/BIRC5
HSP60	

Human Exosome Characterization

(Cat. No. HEXSM-170K)

① (Cat. No. HEXSM-170K-PMX)

② (Bulk Cat. No. HEXSM-170K-BKPMX)

Argonaute-2 (Ago2)*	Flotillin-1 (FLOT-1)
Calreticulin (CALR)	GAPDH
CD9	Syntenin-1 (Syn-1)
CD63	TSG101
CD81	

*The Ago2 bead is static and will always be included in the kit format.

Human Circulating Cancer Biomarker Panel 1

(Cat. No. HCCBP1MAG-58K)

α -Fetoprotein (AFP)	IL-8/CXCL8
CA125	Leptin
CA15-3	MIF
CA19-9	Osteopontin (OPN)
CEA	Prolactin
CYFRA21-1	PSA (free) [†]
sFAS/TNFRSF6	PSA (total) [†]
sFasL	SCF
FGF-2/FGF-basic	TGF α
HCG β	TNF α
HE4	TRAIL/TNFSF10
HGF	VEGF-A
IL-6	

Human Circulating Cancer Biomarker Panel 3

(Cat. No. HCCBP3MAG-58K)

Cathepsin D	Melanoma Inhibitory Activity (MIA)
Ferritin	Myeloperoxidase (MPO)
Fibroblast Activation Protein (FAP)	Sex Hormone Binding Globulin (SHBG)
Galectin-3	
IGFBP3 ^o	

Human Circulating Cancer Biomarker Panel 4

(Cat. No. HCCB4MAG-58K)

ALDH1A1	Kallikrein-6
Carbonic Anhydrase 9 (CA9)	Mesothelin
CD44	Midkine
EpCAM	NCAM1/L1CAM/CD171
Hepsin	Transglutaminase 2 (TGM2)

Human Cancer/Metastasis Biomarker Panel 1

(Cat. No. HCMBMAG-22K)

DKK1	Osteoprotegerin (OPG)
GDF15	Periostin
Neuron-specific Enolase (NSE)	TRAP5
Osteonectin/SPARC	TWEAK
	YKL40/CHI3L1

Human Angiogenesis/Growth Factor Panel 1

(Cat. No. HAGP1MAG-12K)

Angiopoietin-2	HB-EGF
BMP-9	HGF
EGF	IL-8/CXCL8
Endoglin	Leptin
Endothelin-1	Placental Growth Factor (PlGF)
FGF-1/FGF-acidic	VEGF-A
FGF-2/FGF-basic	VEGF-C
Follistatin (FST)	VEGF-D
G-CSF	

Human Angiogenesis Panel 2

(Cat. No. HANG2MAG-12K)

Angiostatin/Kringle	sIL-6R α
sAXL	sNeuropilin-1 (sNRP-1)
sCD31/sPECAM-1	Osteopontin (OPN)
sc-Kit/sStem Cell Factor Receptor (SCFR)	PDGF-AB/BB
sE-Selectin	Thrombospondin-2 (TSP-2)
sEGFR/sHER1/sErbB1	sTIE-2
sHER2/sEGFR2/sErbB2	suPAR
sHER3/sEGFR3/sErbB3	sVEGFR1/sFlt-1
sHGFR/sc-Met	sVEGFR2/sKDR/sFlk-1
	sVEGFR3/sFlt-4

MILLIPLEX® Cancer KitsSee how our kits are advancing cancer and immuno-oncology research at SigmaAldrich.com/milliplex-cancer

Neuroscience

Human Amyloid Beta and Tau (CSF samples)

(Cat. No. HNA2MAG-68K)

Amyloid beta 1-40	pTau (Thr181)
Amyloid beta 1-42	Tau (total)

Human Neuroscience Panel 1 (CSF samples)

(Cat. No. HNS1MAG-95K)

α-Synuclein	PARK5/UCLH1
Glial Fibrillary Acidic Protein (GFAP)	PARK7/DJ1
Neuron-specific Enolase (NSE)	Transglutaminase 2 (TGM2)

Human Neuroscience Panel 2

(Cat. No. HNS2MAG-95K)

Angiogenin (ANG) ^o	Ferritin
ApoE4 ^o	Neurogranin (NRGN)
FABP3	TREM2

Human Neurodegenerative Autoantibody IgG** **NEW**

(Cat. No. HNDGAB-220K)

QUALITATIVE KIT

α-synuclein	DRD2
Aβ42	ELAVL4 (HuD)
AChR	GFAP
AGNA (SOX1)	MBP
Ago2 (Su)	mGluR1
AMPA-R	MOG
Amphiphysin	NF-L
ANNA2 (Ri)/NOVA1	NMDAR1
AQP4	NRXN3
C1q	PCA1 (Yo)/CDR2
CRMP5	PNMA1 (Ma1)
CRYAB	tTau
DPPX	

Human Neurodegenerative Disease Panel 1

(Cat. No. HNDG1MAG-36K)

α-2-Macroglobulin	Complement Factor C3
Apo AI	Complement Factor H (CFH)
Apo CIII	
Apo E	

Human Neurodegenerative Disease Panel 2

(Cat. No. HNDG2MAG-36K)

α-1-Antitrypsin (A1AT)	MIP-4/PARC/CCL18
C4	PEDF
CRP	Serum Amyloid P (SAP)

Human Neurodegenerative Disease Panel 3

(Cat. No. HNDG3MAG-36K)

BDNF	PAI-1 (total)
Cathepsin D	PDGF-AA
sICAM-1	PDGF-AB/BB
Myeloperoxidase (MPO)	RANTES/CCL5
sNCAM	sVCAM-1

Human Neurodegenerative Disease Panel 4 (CSF samples)

(Cat. No. HNDG4MAG-36K)

Amyloid beta 1-40	sRAGE
Amyloid beta 1-42	S100B
GDNF	

Human Neurological Disorders Panel 3

(Cat. No. HND3MAG-39K)

Angiotensinogen (AGT)	Osteopontin (OPN)
Contactin-1	Soluble Superoxide Dismutase 1 (sSOD1)
Fetuin A ^o	Soluble Superoxide Dismutase 2 (sSOD2)
Kallikrein-6	

Human Neuropeptide **▲** **^**

(Cat. No. HNP2MAG-35K)

α-MSH	Oxytocin
β-Endorphin	Substance P
Neurotensin	

Human Circadian Stress **▲** **^**

(Cat. No. HNC5MAG-35K)

Cortisol	Melatonin
----------	-----------

Toxicity

Human Kidney Injury Panel 1 (Urine samples)

(Cat. No. HKI1MAG-99K)

Calbindin	KIM-1
Collagen IV	Renin
GSTa	TFF-3
IP-10/CXCL10	TIMP-1

Human Kidney Injury Panel 2 (Urine samples)

(Cat. No. HKI2MAG-99K)

α-1-Microglobulin	EGF
Albumin	NGAL/Lipocalin-2
Clusterin	Osteopontin (OPN)
Cystatin C	

Human Kidney Injury Panel 4 (Serum/Plasma samples)

(Cat. No. HKI4MAG-99K)

EGF	Osteopontin (OPN)
FABP1	PTH
IP-10/CXCL10	Renin
KIM-1	

Human Kidney Injury Panel 5 (Serum/Plasma samples)

(Cat. No. HKI5MAG-99K)

α-1-Microglobulin	Osteoactivin
Collagen IV	TIMP-1
NGAL/Lipocalin-2	Uromodulin

Human Kidney Injury Panel 6 (Serum/Plasma samples)

(Cat. No. HKI6MAG-99K)

β-2-Microglobulin	Cystatin C
Clusterin	RBP4

Human Liver Injury

(Cat. No. HLINJMAG-75K)

5'NT/CD73	MDH1
ARG1	SDH
GSTa	

Explore Biomarkers for Alzheimer's Disease Research

Learn how to combine multiplex and high sensitivity assay analysis for AD biomarker studies at [SigmaAldrich.com/immunoassays-AD](https://www.sigmaaldrich.com/immunoassays-AD)



Legend key for MILLIPLEX® kits

† Analytes which cannot be plexed together:
– Active and total
– Free and total

◆ Available in Cat. No. listed

▼ Premix panel only

Bulk indicates Space Saver Packaging

▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

▶ Requires a protease inhibitor during sample collection

■ Requires sample extraction

** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)

● Serum/Plasma only

★ Tissue Culture samples only

^ Competitive assay format

◼ Available for custom premix

◦ Analyte requires a different sample dilution from others in panel

○ Analyte cannot be measured in serum

Requires sample acidification

§ Analyte cannot be measured in plasma

u Urine only

PRIMATE

Immunology

Non-Human Primate Cytokine/
Chemokine /Growth Factor
Panel A

- (Cat. No. PRCYTA-40K)
 ● (Cat. No. PRCYTA-40K-PX38)◆
 ● (Cat. No. PRCYTA-40K-BK38)◆
 ● (Cat. No. PRCYTA-40K-PX48)
 ● (Cat. No. PRCYTA-40K-BK48)

BCA-1/CXCL13	IL-15◆
sCD137/4-1BB/ TNFRSF9◆	IL-16
sCD40L◆	IL-17A/CTLA8◆
Eotaxin/CCL11	IL-17E/IL-25
sFASL◆	IL-18◆
FGF-2/FGF-basic	IL-21◆
Fractalkine/CX3CL1	IL-22◆
G-CSF◆	IL-23◆
GM-CSF◆	IL-28A/IFNλ2
Granzyme A◆	IL-31
Granzyme B◆	IL-33/NF-HEV (mature)◆
IFNα2◆	IP-10/CXCL10◆
IFNγ◆	I-TAC/CXCL11◆
IL-1α	MCP-1/CCL2◆
IL-1β◆	MIG/CXCL9◆
IL-1RA◆	MIP-1α/CCL3◆
IL-2◆	MIP-1β/CCL4◆
IL-4◆	MIP-3α/CCL20◆
IL-5◆	Perforin◆
IL-6◆	RANTES/CCL5◆▲◆
IL-7◆	TGFα◆
IL-8/CXCL8◆	TNFα◆
IL-10◆	TNFβ/LTA
IL-12 (p70)◆	VEGF-A◆

Metabolism/
EndocrinologyNon-Human Primate
Metabolic Hormone

(Cat. No. NHPMHMAG-45K)

Amylin (active)◆	Insulin
C-Peptide	Leptin
Ghrelin (active)◆	MCP-1/CCL2
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active)◆	PYY (total)
Glucagon◆	
IL-6	

Non-Human Primate Pituitary
Panel 1

(Cat. No. NHPPT1MG-46K)

ACTH	FSH
Agouti-Related Protein (AgRP)	GH
CNTF	LH
	TSH

MOUSE

Immunology

Mouse Cytokine/Chemokine/
Growth Factor Expanded
Panel 1 **NEW**

- (Cat. No. MCYT1-190K)
 ● (Cat. No. MCYT1-190K-SPX)◆
 ● (Cat. No. MCYT1-190K-SPXBK)◆
 ● (Cat. No. MCYT1-190K-LPX)
 ● (Cat. No. MCYT1-190K-LPXBK)

BAFF	IL-12p40◆
Betacellulin	IL-12p70◆
CCL25/TECK	IL-13◆
sCD137/4-1BB/ TNFRSF9	IL-15◆
CHI3L1	IL-16
CXCL16	IL-17A/CTLA8◆
EGF◆	IL-17F◆
Eotaxin/CCL11◆	IL-18◆
Erythropoietin (EPO)	IL-20
Exodus-2/ CCL21/6CKine	IL-22◆
sFas/TNFRSF6	IL-28B/IFNλ3◆
sFasL	IL-31
FGF-2◆	IL-33◆
FLT3L	IP-10/CXCL10◆
Fractalkine/CX3CL1	KC/GRO/CINC-1/ CXCL1◆
G-CSF◆	LIF◆
GDF-15	LIX◆
GM-CSF◆	MDC/CCL22
Granzyme B	MCP-1/CCL2◆
sICAM-1	MCP-2
IFNα◆	MCP-3
IFNβ◆	MCP-5/CCL12
IFNγ◆	M-CSF◆
IL-1α◆	MIG/CXCL9◆
IL-1β◆	MIP-1α/CCL3◆
IL-2◆	MIP-1β/CCL4◆
IL-3◆	MIP-2/CXCL2◆
IL-4◆	MIP-3α/CCL20
IL-5◆	MIP-3β/CCL19
IL-6◆	sRAGE
IL-7◆	RANTES/CCL5◆
IL-9◆	TARC/CCL17
IL-10◆	TNFα◆
IL-11	VEGF-A◆

Mouse High Sensitivity T Cell

- (Cat. No. MHSTCMAG-70K)
 ● (Cat. No. MHSTCMAG-70KPMX)
 ● (Bulk Cat. No. MHSTCMAG-70KPBK)

GM-CSF	IL-10
IFNγ	IL-12 (p70)
IL-1α	IL-13
IL-1β	IL-17A/CTLA8
IL-2	KC/GRO/CINC-1/ CXCL1
IL-4	LIX
IL-5	MCP-1/CCL2
IL-6	MIP-2/CXCL2
IL-7	TNFα

Mouse Th17

- (Cat. No. MTH17MAG-47K)
 ● (Cat. No. MT17MAG47K-PX25)
 ● (Bulk Cat. No. MT17MAG47PMX25BK)

sCD40L	IL-17E/IL-25
GM-CSF	IL-17F
IFNγ	IL-21
IL-1β	IL-22
IL-2	IL-23
IL-4	IL-27
IL-5	IL-28B/IFNλ3
IL-6	IL-31
IL-10	IL-33/NF-HEV (mature)
IL-12 (p70)	MIP-3α/CCL20
IL-13	TNFα
IL-15	TNFβ/Lymphotoxin-α (LTA)
IL-17A/CTLA8	

Mouse CD8+ T Cell

- (Cat. No. MCD8MAG-48K)
 ● (Cat. No. MCD8MAG48K-PX15)
 ● (Bulk Cat. No. MCD8MAG48KPX15BK)

sCD137/4-1BB/ TNFRSF9	IL-4
sFas/TNFRSF6	IL-5
sFasL	IL-6
GM-CSF	IL-10
Granzyme B	IL-13
IFNγ	MIP-1β/CCL4
IL-2	RANTES/CCL5
	TNFα

Mouse Soluble Cytokine
Receptor

- (Cat. No. MSCRMAG-42K)

sCD30	sRAGE
sGP130	sTNF RI
sIL-1RI	sTNF RII
sIL-1RII	sVEGFR1/sFit-1
sIL-2Ra	sVEGFR2/sKDR/sFlk-1
sIL-4R	sVEGFR3/sFit-4
sIL-6R	

Mouse MMP Panel 1
(Serum/Plasma samples)

(Cat. No. MMMP1MAG-79K)

MMP-2	MMP-8
MMP-3	

Mouse MMP Panel 2
(Serum/Plasma samples)

(Cat. No. MMMP2MAG-79K)

proMMP-9	MMP-12
----------	--------

Squeak Out The Best Results

Measure up to 68 mouse targets in one assay. Discover more details about the largest mouse cytokine multiplex assay at [SigmaAldrich.com/milliplex-mouse](https://www.sigmaaldrich.com/milliplex-mouse).



Mouse MMP Panel 3 (Cell culture samples)

(Cat. No. M3MMP3MAG-79K)

MMP-2	proMMP-9
MMP-3	MMP-12
MMP-8	

Immune Response

Mouse Immunoglobulin Isotyping

☑ (Cat. No. MGAMMAG-300K)

IgA	IgG2b
IgG1	IgG3
IgG2a	IgM

Mouse IgE – Singleplex

(Cat. No. MGAMMAG-300E)

IgE

Metabolism/ Endocrinology

Mouse Adipokine (Serum/Plasma samples)

(Cat. No. MADKMAG-71K)

IL-6	PAI-1 (total)
Insulin	Resistin
Leptin	TNFα
MCP-1/CCL2	

Mouse Adipocyte (Cell culture samples)

(Cat. No. MADCYMAG-72K)

Adiponectin	PAI-1 (total)
IL-6	Resistin
Leptin	TNFα
MCP-1/CCL2	

Mouse Adiponectin – Singleplex (Serum/Plasma samples)

(Cat. No. MADPNMAG-70K-01)

Adiponectin

Mouse Metabolic Hormone Expanded

(Cat. No. MMHE-44K)

Amylin (active) †	Leptin
C-Peptide 2	MCP-1/CCL2
Ghrelin (active) †	Pancreatic Polypeptide (PP)
GIP (total)	PYY (total)
GLP-1 (active) †‡	Resistin
GLP-1 (total) †‡	Secretin
Glucagon †	TNFα
IL-6	
Insulin	

Mouse Myokine

(Cat. No. MMYOMAG-74K)

BDNF	Irisin
Erythropoietin (EPO) ★	LIF
FGF-21	Myostatin/GDF8
Follistatin-like Protein 1 (FSTL1)	Oncostatin-M (OSM)
IL-6	Osteocrin (OSTN)/Musclin
IL-15	Osteonectin/SPARC

Mouse Aging Panel 1

(Cat. No. MAGE1MAG-25K)

CTACK/CCL27	Jag1
FGF-21	Leptin
GnRH	Notch1
IL-6	TNFα

Mouse Pituitary

(Cat. No. MPTMAG-49K)

ACTH	LH
BDNF	Prolactin
FSH	TSH
GH	

Mouse TSH – Singleplex **NEW**

(Cat. No: RMTSH-200K)

(Bulk Cat. No. RMTSH-200K-10PK)

TSH

Cardiovascular

Mouse CVD Panel 1

(Cat. No. MCVD1MAG-77K)

sCD31/sPECAM-1	ProMMP-9
sE-Selectin	sP-Selectin
sICAM-1	Thrombomodulin
PAI-1 (total)	

Mouse CVD Panel 2

(Cat. No. MCVD2MAG-77K)

sCD40L	Oncostatin M (OSM)
CXCL16	Placental Growth Factor 2
Endocan-1 (ESM-1)	Troponin I (TnI)
Follistatin (FST)	Troponin T (TnT)
LIGHT	

Mouse Acute Phase Panel 2

(Cat. No. MAP2MAG-76K)

α-1-Acid Glycoprotein (AGP)	CRP
α-2-Macroglobulin	Haptoglobin
Adipsin/Factor D	Serum Amyloid P (SAP)

Cancer

Humanized Mouse **NEW**

☑ (Cat. No. HUMU-210K)

41 (Cat. No. HUMU-210K-PMX)

43 (Cat. No. HUMU-210K-PMXBK)

G-CSF (Human)	IL-12p40 (Human)
G-CSF (Mouse)	IL-12p40 (Mouse)
GM-CSF (Human)	IL-12p70 (Human)
GM-CSF (Mouse)	IL-12p70 (Mouse)
IFNγ (Human)	IL-15 (Human)
IFNγ (Mouse)	IL-17A/CTLA8 (Human)
IL-1α (Human)	IL-17A/CTLA8 (Mouse)
IL-1β (Human)	IL-18 (Human)
IL-1β (Mouse)	IL-18 (Mouse)
IL-2 (Human)	IP-10/CXCL10 (Human)
IL-2 (Mouse)	IP-10/CXCL10 (Mouse)
IL-3 (Human)	MCP-1/CCL2 (Human)
IL-3 (Mouse)	MCP-1/CCL2 (Mouse)
IL-4 (Human)	M-CSF (Human)
IL-5 (Human)	M-CSF (Mouse)
IL-5 (Mouse)	MIG/CXCL9 (Human)
IL-6 (Human)	MIG/CXCL9 (Mouse)
IL-6 (Mouse)	TNFα (Human)
IL-7 (Human)	TNFα (Mouse)
IL-8 (Human)	
KC/GRO/CINC-1/CXCL1 (Mouse)	
IL-10 (Human)	

Legend key for MILLIPLEX® kits

† Analytes which cannot be plexed together:
– Active and total
– Free and total

◆ Available in Cat. No. listed

▼ Premix panel only

Bulk indicates Space Saver Packaging

▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

‡ Requires a protease inhibitor during sample collection

■ Requires sample extraction

** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)

● Serum/Plasma only

★ Tissue Culture samples only

^ Competitive assay format

☑ Available for custom premix

◦ Analyte requires a different sample dilution from others in panel

○ Analyte cannot be measured in serum

Requires sample acidification

§ Analyte cannot be measured in plasma

u Urine only

Mouse Angiogenesis / Growth Factor Panel 1

(Cat. No. MAGPMAG-24K)

sALK-1	IL-6
Amphiregulin	IL-17A/CTLA8
Angiopoietin-2 ▲	KC/GRO/CINC-1/ CXCL1
Betacellulin ▲	Leptin
sCD31/sPECAM-1 ▲	MCP-1/CCL2
EGF	MIP-1α/CCL3
Endoglin	Placental Growth Factor 2
Endothelin-1	Prolactin
sFasL	SDF-1/CXCL12
FGF-2/FGF-basic	TNFα
Follistatin (FST)	VEGF-A
G-CSF	VEGF-C
HGF	VEGF-D
IL-1β	

Mouse Immuno-Oncology Checkpoint Protein Panel 1

☐ (Cat. No. MCKP1-110K)

⊕ (Cat. No. MCKP1-110K-PX28)

⊕ (Bulk Cat No. MCKP1-110K-PBK28)

4-1BBL/TNFSF9	Galectin-1
5'-NT/CD73	Galectin-3
B7-H2/ICOSL	GITR
B7-H3/CD276	Granzyme B
BCA-1/CXCL-13	HVEM
BTLA	IFNγ
CD137/4-1BB	IL-10
CD226/DNAM-1	LAG-3
CD25/IL-2Ra	PD-1
CD27	PD-L1
CD40	PD-L2
CD80/B7-1	TIM-3
CTLA-4/CD152	TLR-2
E-Cadherin	TNFα

Neuroscience**Mouse Amyloid Beta**

(Cat. No. MABMAG-83K)

Amyloid beta 1-40	Amyloid beta 1-42
-------------------	-------------------

Mouse Neuropeptide ■ ^

(Cat. No. RMNPMAG-83K)

α-MSH	Oxytocin
β-Endorphin	Substance P
Neurotensin	

Toxicity**Mouse Kidney Injury Panel 1**

(Cat. No. MKI1MAG-94K)

β-2-Microglobulin ^u	Renin
IP-10/CXCL10	TIMP-1
KIM-1	VEGF-A ^u

Mouse Kidney Injury Panel 2

(Cat. No. MKI2MAG-94K)

Clusterin	NGAL/Lipocalin-2
Cystatin C	Osteopontin (OPN)
EGF	

RAT**Immunology****Rat Cytokine/Chemokine**

☐ (Cat. No. RECYTMAG-65K)

⊕ (Cat. No. RECYMAG65K27PMX)

⊕ (Bulk Cat. No. RECYMAG65PMX27BK)

EGF	IL-10
Eotaxin/CCL11	IL-12 (p70)
Fractalkine/CX3CL1	IL-13
G-CSF	IL-17A/CTLA8
GM-CSF	IL-18
KC/GRO/CINC-1/ CXCL1	IP-10/CXCL10
IFNγ	Leptin
IL-1α	LIX
IL-1β	MCP-1/CCL2
IL-2	MIP-1α/CCL3
IL-4	MIP-2/CXCL2
IL-5	RANTES/CCL5
IL-6	TNFα
	VEGF

**Metabolism/
Endocrinology****Rat Adipokine
(Serum/Plasma samples)**

(Cat. No. RADPKMAG-80K)

IL-1β	MCP-1/CCL2
IL-6	PAI-1 (total)
Insulin	TNFα
Leptin	

**Rat Adipocyte
(Cell culture samples)**

(Cat. No. RADPCMAG-82K)

Adiponectin	MCP-1/CCL2
IL-1β	PAI-1 (total)
IL-6	TNFα
Leptin	

**Rat Metabolic Hormone
Expanded**

(Cat. No. RMHE-120K)

Amylin (active) [▶]	Insulin
C-Peptide 2	Leptin
Ghrelin (active) [▶]	MCP-1/CCL2
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active) [▶] [▶]	PYY (total)
GLP-1 (total) [▶] [▶]	Secretin
Glucagon [▶]	TNFα
IL-6	

Rat Myokine

(Cat. No. RMYOMAG-88K)

BDNF	IL-15
Erythropoietin (EPO)	Irisin
FGF-21	LIF
Follistatin-like Protein 1 (FSTL1)	Myostatin/GDF8
Fractalkine/CX3CL1	Osteocrin (OSTN)/ Musclin
IL-6	Osteonectin/SPARC

Rat Pituitary

(Cat. No. RPTMAG-86K)

ACTH	LH
BDNF	Prolactin
FSH	TSH
GH	

Rat Stress Hormone ■

(Cat. No. RSHMAG-69K)

ACTH	Melatonin ^
Corticosterone ^	

Rat Thyroid

(Cat. No. RTHYMAG-30K)

T3 ^	TSH
T4 ^	

Rat TSH – Singleplex **NEW**

(Cat. No. RMTSH-200K)

(Bulk Cat. No. RMTSH-200K-10PK)

TSH

Quality in Every MILLIPLEX® Kit

We pride ourselves on our quality R&D, support, manufacturing, and QC.

Read more at: SigmaAldrich.com/milliplex-quality

Cardiovascular

Rat Cardiac Injury Panel 1

(Cat. No. RCI1MAG-87K)

Cardiac Troponin I (cTnI)	FABP3
Cardiac Troponin T (cTnT)	Follistatin-like Protein 1 (FSTL1)
Creatine Kinase Muscle (CKM)	Myosin Light Chain 3 (MYL3)
	TIMP-1

Rat Vascular Injury Panel 1 (Serum/Plasma samples)

(Cat. No. RV1MAG-26K)

Caveolin-1	IL-6
Connective Tissue Growth Factor (CTGF)	MCP-1/ CCL2
KC/GRO/CINC-1/ CXCL1	PAI-1 (total)
	TIMP-1
	TNF α
	VEGF

Rat Vascular Injury Panel 2 (Serum/Plasma samples)

(Cat. No. RV2MAG-26K)

Adiponectin	sICAM-1
sE-Selectin	

Rat Vascular Injury Panel 3 (Serum/Plasma samples)

(Cat. No. RV3MAG-26K)

α -1-Acid Glycoprotein (AGP)	Haptoglobin
α -2-Macroglobulin (A2M)	

Bone

Rat Bone Panel 1 (Serum/Plasma samples)

(Cat. No. RBN1MAG-31K)

ACTH	Leptin
DKK1	Osteoprotegerin (OPG)
FGF-23	PTH
Insulin	Sclerostin (SOST)

Neuroscience

Rat Neuropeptide ■ ^

(Cat. No. RMNPMAG-83K)

α -MSH	Oxytocin
β -Endorphin	Substance P
Neurotensin	

Toxicity

Rat Kidney Toxicity Panel 1 (Urine samples)

(Cat. No. RKTX1MAG-37K)

Clusterin	Osteopontin (OPN)
GST α ^	TIMP-1
IP-10/CXCL10	VEGF-A
KIM-1	

Rat Kidney Toxicity Panel 2 (Urine samples)

(Cat. No. RKTX2MAG-37K)

α -1-Acid Glycoprotein (AGP)	Cystatin C
Albumin^	EGF
β -2-Microglobulin	NGAL/ Lipocalin-2

Rat Liver Injury

(Cat. No. RLI1MAG-92K)

5'NT/CD73	GST α
ARG1	SDH
GOT1	

COMPANION/ AGRICULTURAL

Immunology

Bovine Cytokine/Chemokine Panel 1

Ⓞ (Cat. No. BCYT1-33K)

15 (Cat. No. BCYT1-33K-PX15)

15 (Bulk Cat. No. BCYT1-33K-PXBK15)

IFN γ	IL-36RA/IL-1F5
IL-1 α	IP-10/CXCL10
IL-1 β	MCP-1/CCL2
IL-4	MIP-1 α /CCL3
IL-6	MIP-1 β /CCL4
IL-8/CXCL8	TNF α
IL-10	VEGF-A
IL-17A/CTLA8	

Bovine Acute Phase Protein

(Cat. No. BAPP1-150K)

Haptoglobin	Fibrinogen Ⓞ
-------------	--------------

Canine Cytokine/Chemokine

Ⓞ (Cat. No. CCYTOMAG-90K)

13 (Cat. No. CCYTMG-90K-PX13)

15 (Bulk Cat. No. CCYTMAG90KPX13BK)

GM-CSF	IL-15
IFN γ	IL-18
IL-2	IP-10/CXCL10
IL-6	KC-like
IL-7	MCP-1/ CCL2
IL-8/CXCL8	TNF α
IL-10	

Chicken Cytokine/Chemokine

Ⓞ (Cat. No. GCYT1-16K)

12 (Cat. No. GCYT1-16K-PX12)

12 (Cat. No. GCYT1-16K-PXBK12)

IFN α	IL-21
IFN γ	M-CSF
IL-2	MIP-1 β /CCL4
IL-6	MIP-3 α /CCL20
IL-10	RANTES/CCL5
IL-16	VEGF

MILLIPLEX® Veterinary Medicine and Animal Health Kits

Fetch the latest in animal health research with our growing selection of multiplex assays.

Discover more at SigmaAldrich.com/vetmed



Legend key for MILLIPLEX® kits

† Analytes which cannot be plexed together:
– Active and total
– Free and total

◆ Available in Cat. No. listed

▼ Premix panel only

Bulk indicates Space Saver Packaging

▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

▶ Requires a protease inhibitor during sample collection

■ Requires sample extraction

** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)

● Serum/Plasma only

★ Tissue Culture samples only

^ Competitive assay format

Ⓞ Available for custom premix

◦ Analyte requires a different sample dilution from others in panel

Ⓞ Analyte cannot be measured in serum

Requires sample acidification

§ Analyte cannot be measured in plasma

u Urine only

Equine Cytokine/Chemokine

- (Cat. No. EQCYTMAG-93K)
- 23 (Cat. No. EQCYTMG-93KPX23)
- 23 (Cat. No. EQCTMG93KPX23BK)

Eotaxin/CCL11	IL-6
FGF-2/FGF-basic	IL-8/CXCL8
Fractalkine/CX3CL1	IL-10
G-CSF	IL-12 (p70)
GM-CSF	IL-13
GRO	IL-17A/CTLA8
IFN γ	IL-18
IL-1 α	IP-10/CXCL10
IL-1 β	MCP-1/CCL2
IL-2	RANTES/CCL5
IL-4	TNF α
IL-5	

Feline Cytokine/Chemokine ▼

- 19 (Cat. No. FCYTMAG-20K-PMX)
- 19 (Bulk Cat. No. FCYTMAG20KPX19BK)

NON-CONFIGURABLE KIT

sFAS/TNFRSF6	IL-13
Flt3 Ligand	IL-18
GM-CSF	KC/GRO/CINC-1/ CXCL1
IFN γ	
IL-1 β	MCP-1/CCL2
IL-2	PDGF-BB
IL-4	RANTES/CCL5
IL-6	SCF
IL-8/CXCL8	SDF-1/CXCL12
IL-12 (p40)	TNF α

Ovine Cytokine/Chemokine Panel 1

- (Cat. No. SCYT1-91K)
- 14 (Cat. No. SCYT-91K-PX14)
- 14 (Bulk Cat. No. SCYT-91K-PXBK14)

IFN γ	IL-17A/CTLA8
IL-1 α	IL-36RA/IL-1F5
IL-1 β	IP-10/CXCL10
IL-4	MIP-1 α /CCL3
IL-6	MIP-1 β /CCL4
IL-8/CXCL8	TNF α
IL-10	VEGF-A

Porcine Cytokine/Chemokine

- (Cat. No. PCYTMAG-23K)
- 13 (Cat. No. PCYTMG-23K-13PX)
- 13 (Bulk Cat. No. PCYTMAG23PMX13BK)

GM-CSF	IL-6
IFN γ	IL-8/CXCL8
IL-1 α	IL-10
IL-1 β	IL-12
IL-1Ra	IL-18
IL-2	TNF α
IL-4	

Porcine Acute Phase Protein

(Cat. No. PAPP1-160K)

CRP	Haptoglobin
-----	-------------

**Metabolism/
Endocrinology****Canine Gut Hormone**

(Cat. No. CGTMAG-98K)

Amylin (total) †	Insulin
Ghrelin (active) †	Leptin
GIP (total)	Pancreatic Polypeptide (PP)
GLP-1 (active) †	PYY (total)
Glucagon	

Canine Pituitary Expanded Panel

(Cat. No. CANPIT-96K)

ACTH	LH
FSH	Prolactin
GH	TSH

Toxicity**Canine Kidney Toxicity Expanded Panel 1 (Urine samples)**

(Cat. No. CKT1MAG-97K)

Clusterin	MCP-1/CCL2
Cystatin C	NGAL/Lipocalin-2
IL-8/CXCL8	Osteopontin (OPN)
KIM-1	

Canine Kidney Toxicity Panel 2 (Urine samples)

(Cat. No. CKT2MAG-97K)

Albumin	RBP4
β -2-Microglobulin	TFF-3

MULTI-SPECIES**Immunology****Multi-Species TGF β – Singleplex #**

(Cat. No. TGFBMAG-64K-01)
(Bulk Cat. No. TGFBMAG-64K-01BK)
Species: C, E, F, H, M, NHP, Por, R, guinea pig, hamster, rabbit

TGF β 1**Multi-Species TGF β – 3 Plex ▼ #**

(Cat. No. TGFBMAG-64K-03)
Species: H, M, NHP, R, guinea pig, hamster, mini pig; additionally, TGF- β 1 and TGF- β 2 can be detected in the serum of C, E, and rabbit

NON-CONFIGURABLE KIT

TGF β 1	TGF β 3
TGF β 2	

**Metabolism/
Endocrinology****Multi-Species Hormone ■ ^**

(Cat. No. MSHMAG-21K)
Species: C, E, F, H, M, NHP, Por, R, guinea pig, hamster, rabbit

Cortisol	T3
Estradiol	T4
Progesterone	Testosterone NEW

KITS TO BE PHASED OUT**Human Cytokine/Chemokine Panel II**

- (Cat. No. HCYP2MAG-62K)
- 23 (Cat. No. HCP2MAG-62K-PX23)
- 23 (Bulk Cat. No. HCP2MAG62KPX23BK)

6Ckine/CCL21/ Exodus-2	IL-28A/IFN λ 2
BCA-1/CXCL13	IL-33/NF-HEV (mature)
CTACK/CCL27	LIF
ENA-78/CXCL5	MCP-2/CCL8
Eotaxin-2/CCL24/ MPIF-2	MCP-4/CCL13
Eotaxin-3/CCL26	MIP-1 δ /MIP-5/CCL15
I-309/CCL1	SCF
IL-16	SDF-1/CXCL12
IL-20	TARC/CCL17
IL-21	TPO
IL-23	TRAIL/TNFSF10
	TSLP

Legend key for MILLIPLEX® kits

- † Analytes which cannot be plexed together:
 - Active and total
 - Free and total
- ◆ Available in Cat. No. listed
- ▼ Premix panel only
- Bulk indicates Space Saver Packaging
- ▲ These analytes cannot be plexed with other analytes in this panel in serum/plasma

- ‡ Requires a protease inhibitor during sample collection
- Requires sample extraction
- ** No standard/QC; antibody levels are reported as MFIs (Median Fluorescence Intensities)
- Serum/Plasma only
- ★ Tissue Culture samples only

- ^ Competitive assay format
- Available for custom premix
- Analyte requires a different sample dilution from others in panel
- Analyte cannot be measured in serum
- # Requires sample acidification
- § Analyte cannot be measured in plasma
- u Urine only