

R-PLEX[®] Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

The tables below provide the dilution factors and primary diluent combinations for samples tested with R-PLEX Antibody Sets. These dilution factors and diluent combinations are recommended as starting points when developing your assay. However, other sample dilutions and diluents may be considered based on the sample type. Please refer to the R-PLEX datasheet for additional information on your analytes of interest. For further guidance, please contact our Scientific Support team at scientificsupport@mesoscale.com.

Notes:

- (1) Additional assay diluent is necessary for samples that are diluted greater than 10-fold. Diluent 100 may be used in place of the assay diluent for samples that require high dilution. Testing of different diluents can help optimize assays for specific experimental conditions.
- (2) Some assay and antibody diluents require additives, as noted in the tables. For more information, refer to the product-specific datasheet available at www.mesoscale.com/R-PLEX-documents.
- (3) For cell lysate samples, the fold dilution or total protein amount ($\mu\text{g}/\text{well}$) is dependent on the cell type and model system used. We recommend performing a dilution series and testing for diluent compatibility.

Human							
Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
4-1BB/TNFRSF9	Neat	Neat	—	—	—	12	11
5'-Nucleotidase	2	2	—	—	—	12	11
6Ckine/CCL21	2	2	—	—	—	57	3
A2M	4,000	4,000	—	—	—	12	12
A β (total)	—	—	—	4	—	35	100
A β 38 (4G8)	—	—	—	2	—	35	100
A β 38 (6E10)	—	—	—	2	—	35	100
A β 40 (4G8)	—	—	—	2	—	35	100
A β 40 (6E10)	—	—	—	3	—	35	100
A β 42 (4G8)	—	—	—	2	—	35	100
A β 42 (6E10)	—	—	—	2	—	35	100
ACE	2	2	—	—	—	57	3
ACE2	Neat	Neat	—	—	—	12	12
AChE	Neat	Neat	—	—	—	57	3
ADAM 8	Neat	Neat	—	—	—	12	11
ADAM 9	Neat	Neat	—	—	—	12	11
ADAM17	Neat	Neat	—	—	—	12	11
ADAM-TS 13	4	4	—	—	—	57	3
ADP-ribosyl cyclase	Neat	Neat	—	—	—	57	3
AFP	Neat	Neat	—	—	—	57	3
AGP	—	300,000	—	—	—	37	37
α -GST	2	2	—	—	—	37	37
Aiolos	—	—	—	—	0.62 $\mu\text{g}/\text{well}$ (cell lysate)	39 (with additives)	MSD Tris Wash Buffer (with additives)

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Human							
Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
Albumin	320,000	320,000	500	—	—	100	59
ALCAM/CD166	64	64	—	—	—	57	3
Alpha-amylase 1	Neat	Neat	—	—	—	58	3
Alpha Defensin 1	8	8	—	—	—	57	3
AMICA1	2	2	—	—	—	13	11
Amphiregulin	Neat	Neat	—	—	—	57	3
Ang-1	2	2	2	2	—	10	3
Ang-2	2	2	2	2	—	10	3
Ang-4	Neat	Neat	—	—	—	57	3
Angiogenin	10,000	10,000	—	—	—	57	3
Angiotensinogen	10,000	10,000	—	—	—	57	3
Ang-like 3	25	25	—	—	—	13	11
Ang-like 4	Neat	Neat	—	—	—	13	11
Ang-like 6	Neat	Neat	—	—	—	13	11
Annexin A1	—	4	—	—	—	7	37
Annexin A5	Neat	Neat	—	—	—	13	11
Antileukoproteinase	50	50	—	—	—	35	35
ApoB (total)	2,000	2,000	—	—	—	12	11
ApoC2	8,000	8,000	—	—	—	12	12
ApoC3	50,000	50,000	—	—	—	101	100
ApoD	8,000	8,000	—	—	—	12	12
ApoE	100	100	—	—	—	57	3
ApoE4	20	20	—	—	—	12	12
ApoH	50,000	50,000	—	—	—	12	12
APP (total)	Neat	Neat	—	—	—	12	11
Arginase-1	2	2	—	—	—	58	3
Autotaxin	16	8	—	—	—	57	3
AXL/UFO	8	8	—	—	—	57	3
βIG-H3	500	500	—	—	—	12	11
B2M	4,000	4,000	4,000	4,000	—	12	12
B7-H6	Neat	Neat	—	—	—	58	3
Basigin	4	4	—	—	—	12	11
BCA-1/BLC	2	2	—	—	—	57	3
Bcl-2	—	—	—	—	0.31 µg/well (cell lysate)	39 (with additives)	39
Bcl-X/Bcl2-L-1	—	—	—	—	0.31 µg/well (cell lysate)	39 (with additives)	39
Bikunin	4,000	4,000	—	—	—	57	3
BIM/Bcl2-L-11	—	—	—	—	2.0 µg/well (cell lysate)	39 (with additives)	39
BMP-2	Neat	Neat	—	—	—	7	11
BMP-4	Neat	Neat	—	—	—	7	11
BMP-5	Neat	Neat	—	—	—	57	3
BMP-6	Neat	Neat	—	—	—	57	3
BMP-7	Neat	Neat	—	—	—	7	11
BMP-9/GDF-2	8	8	—	—	—	7	11
BMP-10	Neat	Neat	—	—	—	12	11
BMP-11/GDF-11	Neat	Neat	—	—	—	12	11
C1q receptor	1,000	1,000	—	—	—	57	3

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Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
CA15-3	20	20	20	—	—	58	3
CA125	20	20	20	20	—	58	3
Calbindin	10	10	10	—	10	7	3
Calcitonin	Neat	Neat	—	—	—	12	12
Calprotectin	8	—	—	—	—	101	37
Cathepsin B (total)	4	4	—	—	—	12	11
Cathepsin D	10	10	—	—	—	101	37
Cathepsin L1	Neat	Neat	—	—	—	12	11
Cathepsin L2	Neat	Neat	—	—	—	12	11
Cathepsin S (total)	16	16	—	—	—	12	11
CCN1	Neat	Neat	—	—	—	57	3
CCN3	10	10	—	—	—	57	3
CCN4	Neat	Neat	—	—	—	12	11
CD5	—	Neat	—	—	—	58	3
CD5L	5,000	5,000	8	—	—	58	3
CD8α	8	8	—	—	—	57	3
CD9 (EV)	10	50	4	10	—	53	53
CD14	—	—	—	—	200 (synovial fluid)	101	3
CD21/CR2	500	500	—	—	—	57	3
CD22	Neat	Neat	—	—	—	57	3
CD30/TNFRSF8	Neat	Neat	—	—	—	57	3
CD31/PECAM-1	20	20	—	—	—	12	12
CD44	Neat	Neat	—	—	—	12	11
CD47	Neat	Neat	—	—	—	57	3
CD63 (EV)	10	20	Neat	10	—	53	53
CD81 (EV)	4	10	4	10	—	53	53
CD163	2	2	—	—	—	57	3
CD177	2	4	—	—	—	57	3
CD200	Neat	Neat	—	—	—	57	3
CEACAM-1	4	4	—	—	—	12	11
CEACAM-5	—	4	—	—	—	7	37
CEACAM-7/CGM2	Neat	Neat	—	—	—	13	11
Chemerin	100	100	—	—	—	57	3
Cholinesterase	1000	1000	—	—	—	57	3
Chromogranin-A	Neat	Neat	—	—	—	57	3
cIAP1	—	—	—	—	2.5 µg/well (cell lysate)	MSD Tris Lysis Buffer (with additives)	MSD Tris Wash Buffer
cIAP2	—	—	—	—	2.5 µg/well (cell lysate)	MSD Tris Lysis Buffer (with additives)	MSD Tris Wash Buffer
CKBB	2	2	—	—	—	101	3
CK Beta 8-1/CCL23	Neat	Neat	—	—	—	2	3
CMG-2	Neat	Neat	—	—	—	57	3
CNTF	Neat	Neat	—	—	—	12	11
Coagulation factor 3	Neat	Neat	—	—	—	12	12
COMP/TSP-5	32	32	—	—	—	7	11
Complement C3	—	300,000	—	—	—	37	37
Complement C3a	10,000	10,000	16	—	—	58	3

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	Serum	Plasma	Urine	CSF	Other		
Complement C3b	50,000	50,000	—	—	—	12	11
Complement C5a	Neat	Neat	—	—	—	13	11
Contactin-2/TAG-1	2	2	—	—	—	13	11
Corin/ATC2	2	2	—	—	—	12	12
COX-2/PTGS2	Neat	Neat	—	—	—	57	3
CRTAM/CD355	Neat	Neat	—	—	—	57	3
CTRP3	2	2	—	—	—	12	11
Cystatin B	Neat	Neat	—	—	—	13	11
Cystatin C	2,000	2,000	—	—	—	12	12
Cytokeratin-8	2	2	2	2	—	10	3
Cytokeratin-18	Neat	Neat	—	—	—	12	12
Cytokeratin-19	Neat	Neat	—	—	—	57	3
Decorin	16	16	—	—	—	12	11
Delta-like 1	2	2	—	—	—	13	11
Delta-like 4	Neat	Neat	—	—	—	58	3
DKK-1	2	2	—	—	—	MSD Tris Wash Buffer	MSD Tris Wash Buffer
DKK-3	50	50	—	—	—	57	3
DKK-4	2	2	—	—	—	13	11
EDIL3	Neat	Neat	—	—	—	12	11
EGF	10	—	500	—	—	37	37
EGFR	64	64	—	—	—	35	35
Elastase-2	2	2	—	—	—	12	11
Endoglin	50	50	50	50	—	57	3
Endostatin	50	50	—	—	—	57	3
Endothelin-1	Neat	Neat	—	—	—	57	3
Enolase 2	5	5	—	5	—	7	7
eNOS	Neat	Neat	—	—	—	12	11
Ep-CAM	Neat	Neat	—	—	—	12	11
Epiregulin	—	Neat	—	—	—	57	3
ER-α	Neat	Neat	—	—	20 µg/well (cel lysate)	39	39
ErbB2	8	8	—	—	—	12	11
ErbB3/HER3	4	4	—	—	—	12	11
ERK1/2 (total)	Neat	Neat	—	—	20 µg/well (cell lysate)	39	39
Erythropoietin R	—	Neat	—	—	—	57	3
FABP2/I-FABP	Neat	Neat	—	—	—	57	3
FABP3/H-FABP	2	2	—	—	—	12	3
FABP4/A-FABP	2	2	—	—	—	13	11
FAP-α/SEPR	—	100	—	—	—	101	37
Fc-epsilon RII	2	2	—	—	—	13	11
FGF (acidic)	Neat	Neat	—	—	—	7	11
Ferritin	500	500	—	—	1 ng/mL (tissue homogenate)	12	12
Fetuin A	10,000	10,000	—	—	—	57	3
FGF-4	Neat	—	—	—	—	57	3
FGF-7	Neat	Neat	—	—	—	13	11
FGF-9	—	—	—	—	—	12	11

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Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
FGF-19	2	2	—	—	—	57	3
FGF-BP1	Neat	Neat	—	—	—	12	11
Fibronectin	100,000	100,000	—	—	—	13	11
Folate R alpha	Neat	Neat	—	—	—	57	3
Follistatin	Neat	Neat	—	—	—	57	3
Follistatin-like 3	—	—	—	—	—	12	11
GAD2/GAD-65	Neat	Neat	—	—	—	12	11
Galectin-1	Neat	Neat	—	—	—	12	11
Galectin-3	50	50	—	—	—	58	3
Galectin-4	—	—	—	—	—	58	3
GAS-1	—	Neat	—	—	—	12	11
GAS-6/AXL-L	25	25	—	—	—	13	11
GASP-1	10	10	—	—	—	61	59
GCPII/PSMA	Neat	Neat	—	—	—	12	11
GDF-8	Neat	Neat	—	—	—	12	11
GDF-15	—	100	—	—	—	101	37
Gelsolin	—	100	—	—	—	101	37
GFAP	—	2	—	—	—	101	27
Glicentin	—	2 (P800)	—	—	—	12	11
Granulysin	2	2	—	—	—	12	11
GRO-B/CXCL2	Neat	Neat	—	—	—	12	12
Growth Hormone	Neat	Neat	—	—	—	57	3
GRP	Neat	Neat	—	—	—	12	11
HAI-2	Neat	Neat	—	—	—	12	11
Haptoglobin	—	300,000	—	—	—	37	37
HB-EGF	2	2	—	—	—	57	3
HCC-4/CCL16	50	50	—	—	—	13	11
HE4/WFDC2	4	4	—	—	—	13	11
Heme Oxygenase 1	Neat	Neat	—	—	—	13	11
Hemoglobin alpha	400	400	—	—	10 (stool)	100	100
Hemojuvelin	Neat	Neat	—	—	—	57	3
Hemopexin	20,000	20,000	—	—	10 (stool)	100	100
Hepcidin	16	2	—	—	—	7	11
hCG alpha	4	4	—	—	—	12	12
Hepsin	Neat	Neat	—	—	—	12	11
HGF	2	2	—	—	—	12	12
HGF activator	2,000	2,000	—	—	—	12	11
HSP27/HspB1	4	4	—	—	—	12	12
HSP60	Neat	Neat	—	—	—	57	3
HSP70	—	2	—	—	—	12	12
Hyaluordinase-1	32	32	—	—	—	57	3
IA-2/PTPRN	Neat	Neat	—	—	—	12	11
ICAM-3	2	2	2	2	—	10	3
IDS	Neat	Neat	—	—	—	12	11
IFN-ε	—	—	—	—	—	12	11
IgE	500	500	—	—	—	100	100
IGF-1	—	Neat	—	—	—	12	11

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	Serum	Plasma	Urine	CSF	Other		
IGF-2R/CI-M6P-R	Neat	Neat	—	—	—	57	3
IGFBP-1	2	2	—	—	—	13	11
IGFBP-2	50	50	—	—	—	57	3
IGFBP-3	20	20	—	—	—	57	3
IGFBP-4	8	5	—	—	—	12	12
IGFBP-8	4	4	—	—	—	57	3
Ikaros	—	—	—	—	0.62 µg/well (cell lysate)	39 (with additives)	MSD Tris Wash Buffer (with additives)
IL-1R2	Neat	Neat	—	—	—	57	3
IL1RL1/ST2	4	4	—	—	—	7	37
IL-1RAcP	100	100	—	—	—	12	11
IL-2R γ	—	—	—	—	—	12	11
IL-6R	50	50	50	50	—	7	8
IL-11	—	—	—	—	4 (Synovial Fluid)	101	3
IL-17RB	Neat	Neat	—	—	—	57	3
IL-18BP	4	4	—	—	—	57	3
IL-19	2	2	—	—	—	57	3
IL-22R α 2	Neat	Neat	—	—	—	57	3
IL-23R	Neat	Neat	—	—	—	57	3
IL-28B/IFN-A3	Neat	Neat	—	—	—	57	3
IL-32	Neat	Neat	—	—	—	12	11
IL-34	Neat	Neat	—	—	—	57	3
IL-36 β	Neat	Neat	—	—	—	12	11
IL-36 γ	Neat	Neat	—	—	—	13	11
IL-36RA	Neat	Neat	—	—	—	57	3
IL-37	Neat	Neat	—	—	—	57	3
IL-38	—	Neat	—	—	—	12	11
Influenza A NP	—	—	—	—	2 (cell culture supernatant)	11	11
Influenza B NP	—	—	—	—	2 (cell culture supernatant)	11	11
IR (soluble)	4	4	—	—	—	100	100
IRS-1	—	—	—	—	0.63 µg/well (cell lysate)	13	12
ITIH4	—	—	—	—	—	58	3
Jagged-1	Neat	Neat	—	—	—	12	11
Kallikrein 1	Neat	—	—	—	—	57	3
Kallikrein 3/PSA	Neat	Neat	—	—	—	57	3
Ki-67	Neat	—	—	—	—	12	11
Klotho	Neat	Neat	—	—	—	57	3
Lactotransferrin	1,000	1,000	—	—	—	100	100
LBP	500	500	—	—	—	12	11
LDL Receptor	4	4	—	—	—	12	11
Legumain	4	4	—	—	—	57	3
LIF2	Neat	Neat	—	—	—	13	11
LOX-1/OLR1	Neat	Neat	—	—	—	57	3
LOXL2	Neat	Neat	—	—	—	57	3
LRRK2	—	—	—	—	2.5–5.0 µg/well (cell lysate)	MSD Tris Lysis Buffer (with additives)	MSD Tris Wash Buffer (with additives)

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Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
LRRK2 (pS935)	—	—	—	—	2.5–5.0 µg/well (cell lysate)	MSD Tris Lysis Buffer (with additives)	MSD Tris Wash Buffer (with additives)
L-Selectin	100	100	—	—	—	3	11
Lymphotactin	4	4	—	—	—	12	11
LYVE-1	100	100	—	—	—	57	3
MAdCAM-1	16	16	—	—	—	13	11
MBP-C	5,000	5,000	—	—	—	12	11
MCAM/CD146	Neat	Neat	—	—	—	57	3
Mcl-1/BAK Complex	—	—	—	—	5.0 µg/well (cell lysate)	39 (with additives)	39
Mcl-1/Bcl2-L-3	—	—	—	—	2.0 µg/well (cell lysate)	39 (with additives)	39
Mcl-1/BIM Complex	—	—	—	—	5.0 µg/well (cell lysate)	39 (with additives)	39
M-CSF-R	50	50	—	—	—	12	11
MEC/CCL28	Neat	Neat	—	—	—	12	11
MerTK	Neat	Neat	—	—	—	57	3
Mesothelin	50	50	50	50	—	7	8
Met (soluble)	20	20	20	20	—	58	3
MIC-A	2	2	—	—	—	57	3
Midkine	2	2	—	—	—	13	11
MIP-4	1,000	1,000	—	—	—	57	3
MMP-3	10	10	10	10	—	7	3
MMP-9 (active)	16	8	—	—	—	57	3
MMP-12	Neat	Neat	—	—	—	2	3
MMP-13	Neat	Neat	—	—	—	57	3
MPIF-1/CCL23	2	2	—	—	—	57	3
MPO	20	20	—	—	—	57	3
MIS/AMH	—	Neat	—	—	—	12	11
MSP	50	50	—	—	—	57	3
MyD88	Neat	Neat	—	—	—	13	11
Myoglobin	50	50	—	—	—	13	11
Myosin BP (cardiac)	Neat	Neat	—	—	—	12	11
NAP-2/CXCL7	500	100	—	—	—	57	3
N-Cadherin	2	2	—	—	—	12	11
NCAM-1	100	100	—	—	—	101	3
Nephrin	Neat	Neat	—	—	—	57	3
Neprilysin	2	2	—	—	—	12	11
Nesfatin-1	Neat	Neat	—	—	—	12	11
Neurofilament H	—	—	—	2	—	12	11
Neurofilament L	2	2	—	2	—	12	11
Neuronal pentraxin-1	10	10	—	100	—	12	11
Neuropilin-1	100	100	—	—	—	12	11
Neurotrophin-3	—	—	—	Neat	—	58	3
NPY	8	32	—	—	—	58	3
Nidogen-1	200	200	—	—	—	12	12
NrCAM	Neat	Neat	—	—	—	57	3
NT-ProBNP	50	50	—	—	—	58	3
Omentin	Neat	Neat	—	—	—	12	12

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	Serum	Plasma	Urine	CSF	Other		
Osteoactivin	10	10	10	10	—	7	3
Osteocalcin	50	50	50	50	—	7	8
Osteonectin	2	2	2	2	—	58	3
Osteopontin	—	4	—	—	—	7	37
Osteoprotegerin	2	2	2	2	—	58	3
OX40L	2	2	—	—	2 (cell lysate)	12	12
OXM/Glicentin	—	2	—	—	—	12	11
p21 (total)	Neat	Neat	—	—	—	12	11
p38 (pT180/pY182)	—	—	—	—	20 µg/well (cell lysate)	39	39
p38 (total)	Neat	Neat	—	—	20 µg well (cell lysate)	39	39
PAF-AH	2	2	—	—	—	12	11
PAR	—	—	—	—	—	39	39
Paraoxonase-1	4	200	—	—	—	12	12
PC9/PCSK9	8	8	—	—	—	13	11
P-Cadherin	10	10	10	10	—	7	3
PDGF-A	2	16	—	—	—	57	3
PDGF-A/B	2	2	—	—	—	13	11
PDGF-C	2	2	—	—	—	13	11
PDGFR-β (total)	8	5	—	—	—	101	101
Pentraxin 2	—	—	—	—	—	61	59
Periostin/OSF-2	8	8	—	—	—	57	3
PF-4/CXCL4	500	100	—	—	—	57	3
PGRP-S	50	50	—	—	—	13	11
PIINP	Neat	Neat	—	—	—	12	11
PR/PGR	—	—	—	—	—	12	11
PRAS40 (total)	Neat	Neat	—	—	0.5 µg/well (cell lysate)	39	39
PRDX-1	—	4	—	—	—	7	37
PRDX-6	—	5	—	—	—	7	7
Presenilin-1 NTF	Neat	Neat	—	—	—	12	11
Procalcitonin	Neat	Neat	—	—	—	12	11
proCollagen alpha-1	8	8	—	—	—	12	11
Progranulin	4	4	—	—	—	57	3
Prolactin	10	10	—	—	—	13	12
proMMP-13	Neat	Neat	—	—	—	13	11
Proteinase 3	100	100	—	—	—	12	11
Protein C Receptor	Neat	Neat	—	—	—	12	11
PSGL-1	—	4	—	—	—	7	37
PSP-D	4	4	—	—	—	57	3
PS-β-G1	—	—	—	—	—	12	11
PTEN (total)	Neat	Neat	—	—	20 µg/well (cell lysate)	39	39
PYY (active)	Neat	Neat	—	—	—	12	11
PZP	500	100	—	—	—	13	11
Reg-3-α	10	10	—	—	—	12	11
Relaxin-2	Neat	Neat	—	—	—	57	3
Renin	Neat	Neat	—	—	—	12	11

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R-PLEX Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

Human							
Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
Resistin	50	50	50	50	—	58	3
RGM-A	Neat	Neat	—	—	—	12	11
S100A8/MRP8	2	2	—	—	—	12	12
S100B	Neat	Neat	—	—	—	12	12
SARS-CoV-2 N	—	—	—	—	Neat (upper resp. sample)	11 (with additives)	11 (with additives)
SARS-CoV-2 Spike	—	—	—	—	Neat (upper resp. sample)	11 (with additives)	11 (with additives)
SCF	2	2	2	2	—	10	3
SCFR/Kit	50	50	—	—	—	7	11
Sclerostin	Neat	Neat	—	—	—	13	11
Serpin A4	100,000	100,000	—	—	—	57	3
Serpin A12/Vaspin	2	2	—	—	—	12	12
Serpin E1 (active)	16	16	—	—	—	57	3
Serpin E1 (inactive)	30	30	—	—	—	57	3
Serpin E1 (total)	30	30	—	—	—	57	3
Serpin F1/PEDF	4	4	—	—	—	101	3
Serpin F2	20,000	20,000	—	—	2 (stool)	100	100
SHP substrate 1	Neat	Neat	—	—	—	57	3
Siglec-3/CD33	4	4	—	—	—	57	3
Siglec-6	Neat	Neat	—	—	—	57	3
Siglec-7/CD328	Neat	Neat	—	—	—	12	11
Siglec-9	Neat	Neat	—	—	—	61	59
SOD2	Neat	Neat	—	—	20 µg/well (cell lysate)	39	39
SPINK-1	2	2	—	—	—	57	3
SPK 1	Neat	Neat	—	—	—	57	3
SR-PSOX/CXCL16	50	50	—	—	—	12	11
Syndecan-1	2	2	—	—	—	57	3
Syndecan-4	4	4	—	—	—	57	3
TACTILE	Neat	Neat	—	—	—	12	11
Tau (total)	—	—	—	4	—	35	35
TECK/CCL25	Neat	Neat	—	—	—	58	3
Tenascin C	4,000	4,000	4,000	4,000	—	12	12
TFF2	8	8	—	—	—	12	11
TFF3	—	4	—	—	—	7	37
TFPI	4	4	—	—	—	12	11
TGF-α	Neat	Neat	—	—	—	12	11
TGF-β RII	Neat	Neat	—	—	—	12	11
TGF-β RIII	—	—	—	—	—	12	11
TGM-2	2	2	—	—	—	12	11
Thrombomodulin	2	2	2	2	—	10	3
Thyroglobulin	2	2	—	—	—	12	12
Tie-1	Neat	Neat	—	—	—	12	11
TIMP-1	—	100	—	—	—	101	37
TIMP-2	100	100	—	—	—	12	11
TIMP-3	Neat	Neat	—	—	—	12	11
TIMP-4	4	4	—	—	—	12	11
TNFAIP6/TSG-6	2	2	—	—	—	12	12

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R-PLEX Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

Human							
Antibody Set	Dilution Factor					Primary Assay Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
TNFRSF10C	20	20	—	—	—	12	12
tPA	4	4	—	—	—	57	3
Troponin I (cardiac)	4	4	—	—	—	7	37
Troponin T (cardiac)	20	—	—	—	—	7	22
Trk-A (total)	Neat	Neat	—	—	20 µg/well (cell lysate)	39	39
Trk-B	Neat	Neat	—	—	—	12	11
TSP-1	2	2	—	—	—	12	37
TSP-2	8	8	—	—	—	12	11
TWEAK/TNFSF12	Neat	Neat	—	—	—	13	11
TYRO-3	4	4	—	—	—	12	11
ULBP-2	Neat	Neat	—	—	—	57	3
U-PAR	—	2	—	—	—	12	12
Uromodulin	500	500	500	—	—	37	37
VE-Cadherin	100	100	—	—	—	12	11
VEGFR-2/KDR	50	50	—	—	—	7	11
VEGFR-3/Flt-4	2	2	—	—	—	57	3
VILIP-1	—	2	—	—	—	101	101
Visfatin	2	2	—	—	—	35	35
VISTA/B7-H5	Neat	Neat	—	—	—	57	3
WIF-1	Neat	Neat	—	—	—	57	3
ZnT8	Neat	Neat	—	—	—	12	11

Nonhuman Primate							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
Alpha-amylase 2A	5,000	5,000	—	—	—	58	3
CD177	16	—	—	—	—	58	3

Mouse							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
ACE2	Neat	Neat	—	—	—	13	11
Adiponectin	1,000	1,000	—	—	—	100	100
AFP	4	16	—	—	—	13	3
Amphiregulin	Neat	Neat	—	—	—	41	45
Ang-like 3	4	4	—	—	—	13	3
AXL/UFO	16	16	—	—	—	41	45
BAFF-R/TNFRSF13C	Neat	Neat	—	—	—	65	3
BSSP-4	Neat	Neat	—	—	—	13	11

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R-PLEX Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

Mouse							
Antibody Set	Dilution Factor					Primary Sample	Primary Antibody
	Serum	Plasma	Urine	CSF	Other	Diluent	Diluent
BIG-H3	32	32	—	—	—	100	100
C1q receptor	500	500	—	—	—	41	45
CCL1	Neat	Neat	—	—	—	13	3
CCL6	Neat	16	—	—	—	41	45
CCN3	4	4	—	—	—	13	3
CCN4	—	—	—	—	—	13	11
CD14	2	2	—	—	—	41	45
CD40L (soluble)	—	Neat	—	—	—	65	3
CD80/B7-1	4	4	—	—	—	13	3
CD163	Neat	Neat	—	—	—	13	3
Chordin	Neat	Neat	—	—	—	13	3
CINC-2/CXCL3	Neat	Neat	—	—	—	13	3
Clusterin	1,000	1,000	—	—	—	41	45
Coagulation factor III	Neat	Neat	—	—	—	13	3
Complement C5a	10,000	8	—	—	—	41	45
CRP	1000	1000	—	—	—	41	45
CTLA-4	Neat	Neat	—	—	—	13	3
CXCL15	Neat	Neat	—	—	—	13	3
Cystatin C	500	500	—	—	—	100	100
DPPIV	4	4	—	—	—	13	3
Decorin	100	100	—	—	—	13	3
DJ-1/PARK7	—	—	—	—	—	13	3
Elastase-2	2	Neat	—	—	—	41	45
Endocan	Neat	Neat	—	—	—	65	3
Endoglin	Neat	Neat	—	—	—	13	3
Eotaxin-2	Neat	Neat	—	—	—	41	45
E-Selectin	25	25	—	—	—	13	3
FABP-1/L-FABP	—	—	—	—	—	65	3
Fc epsilon RII	Neat	Neat	—	—	—	13	3
FGF (acidic)	Neat	Neat	—	—	—	65	3
FGF (basic)	—	—	—	—	—	13	11
Fractalkine	2	2	—	—	—	41	45
FLT3L	Neat	Neat	—	—	—	13	3
GAS-6/AXL-L	64	64	—	—	—	41	45
Galectin-1	4	4	—	—	—	13	3
Galectin-3	64	64	—	—	—	42	40
G-CSF	2	2	—	—	—	57	3
GDF-15	Neat	Neat	—	—	—	13	3
GP4/CD36	Neat	Neat	—	—	—	13	11
gp130 (soluble)	20	20	—	—	—	13	3
Granzyme B	Neat	Neat	—	—	—	13	11
Gremlin-2	Neat	Neat	—	—	—	13	11
HAVCR1/KIM-1	Neat	Neat	—	—	—	41	45
HGF	2	2	—	—	—	41	45
HHIP	Neat	Neat	—	—	—	65	3
ICAM-1	50	50	—	—	—	41	45
ICOS-L/B7-H2	200	200	—	—	—	100	100
IFN-γ R1	Neat	Neat	—	—	—	13	3

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R-PLEX Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

Mouse							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
IFN- ζ	—	—	—	—	—	65	3
IGF-1	256	64	—	—	—	41	45
IGFBP-5	16	16	—	—	—	13	3
IGFBP-6	64	64	—	—	—	13	11
IL-1 α	Neat	Neat	—	—	—	57	3
IL-1RA	Neat	Neat	—	—	—	12	11
IL-1RT1	Neat	Neat	—	—	—	65	3
IL-2R α	4	4	—	—	—	13	3
IL-6R α	16	16	—	—	—	41	45
IL-7	Neat	Neat	—	—	—	57	3
IL-11	Neat	Neat	—	—	—	13	3
IL-15R α	Neat	Neat	—	—	—	13	3
IL-18	Neat	Neat	—	—	—	42	40
IL-20	Neat	Neat	—	—	—	13	3
IL-23R α 2	Neat	Neat	—	—	—	65	3
IL-24	Neat	Neat	—	—	—	13	3
IL-34	Neat	Neat	—	—	—	13	3
IL-36 β	Neat	Neat	—	—	—	65	3
I-TAC	Neat	Neat	—	—	—	13	3
Lactadherin	Neat	Neat	—	—	—	13	3
Leptin Receptor	Neat	Neat	—	—	—	65	3
LIX/CXCL5	Neat	Neat	—	—	—	41	45
LOX-1/OLR1	Neat	Neat	—	—	—	65	3
M-CSF	16	16	—	—	—	57	3
MEC/CCL28	Neat	Neat	—	—	—	65	3
MerTK	4	4	—	—	—	65	3
Meteorin-like	Neat	Neat	—	—	—	13	3
MET (soluble)	4	4	—	—	—	13	3
MIF	Neat	Neat	—	—	—	42	40
MIG	2	2	—	—	—	41	45
Mimecan	Neat	Neat	—	—	—	13	3
MIP-1 γ /CCL9	256	256	—	—	—	41	45
MMP-3 (total)	2	2	—	—	—	41	45
NAP-2/CXCL7	5,000	1,000	—	—	—	100	100
NGFR/TNFSF16	Neat	Neat	—	—	—	13	11
Oncostatin-M	Neat	Neat	—	—	—	41	45
Osteoactivin	Neat	Neat	—	—	—	13	3
Osteoprotegerin	4	4	—	—	—	41	45
PC9/PCSK9	100	100	—	—	—	13	3
PDGF-A/B	8	2	—	—	—	65	3
PDGF-B	4	Neat	—	—	—	13	3
PD-L1	Neat	Neat	—	—	—	13	3
Pentraxin 3	8	8	—	—	—	42	40
Periostin/OSF-2	100	100	—	—	—	41	45
PF-4/Cxcl4	5,000	2,500	—	—	—	41	45
PIGF	Neat	Neat	—	—	—	65	3
Prolactin	Neat	Neat	—	—	—	13	3
proMMP-9	8	Neat	—	—	—	65	3

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R-PLEX Antibody Sets: Dilution Factors and Assay/Antibody Diluent Combinations

Mouse							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
PSP-D	2	2	—	—	—	41	45
RAGE (soluble)	Neat	Neat	—	—	—	13	3
RANKL/TNFSF11	Neat	Neat	—	—	—	13	3
RBP4	1,000	1,000	—	—	—	41	45
Resistin	20	20	—	—	—	11	11
S100A8/MRP8	—	Neat	—	—	—	42	40
S100A9	Neat	Neat	—	—	—	13	3
SAA	500	500	—	—	—	41	45
Sclerostin	Neat	Neat	—	—	—	13	11
Serpin E1 (active)	4	Neat	—	—	—	13	3
SR-PSOX/CXCL16	8	8	—	—	—	13	3
TACI/TNFRSF13B	Neat	Neat	—	—	—	13	11
Tau (total)	—	—	—	4	—	35	35
TFPI	2	8	—	—	—	65	3
Thrombomodulin	4	4	—	—	—	13	3
TIMP-1	Neat	Neat	—	—	—	57	3
TIMP-2	1,000	1,000	—	—	—	100	100
TL1A-TNFSF15	—	—	—	—	—	65	3
TNF-RII	32	32	—	—	—	100	100
TPO	Neat	Neat	—	—	—	65	3
TREM-1	2	2	—	—	—	12	12
TREM-like 1	500	10	—	—	—	65	3
TWEAK R/TNFRSF12	8	8	—	—	—	13	3
VCAM-1	1,000	1,000	—	—	—	41	45
VEGFR-1/Flt-1	Neat	Neat	—	—	—	12	11
VEGFR-2/KDR	32	32	—	—	—	13	3
Vit D Binding Pro	16,000	16,000	—	—	—	100	100
YKL-40	10	10	—	—	—	13	3
YM1	16	4	—	—	—	41	45

Rabbit							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
IL-1 β	—	—	—	—	—	58	3
IL-6	—	—	—	—	—	58	3
IP-10	8	8	—	—	—	58	3
TNF- α	—	—	—	—	—	101	3

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R-PLEX Antibody Set Dilution Factors and Assay/Antibody Diluent Combinations

Rat							
Antibody Set	Dilution Factor					Primary Sample Diluent	Primary Antibody Diluent
	Serum	Plasma	Urine	CSF	Other		
A2M	20,000	20,000	—	—	—	100	100
Adiponectin	1,000	1,000	—	—	—	100	100
AGP	20,000	20,000	—	—	—	100	100
Albumin	—	—	8	—	—	29	29
BAFF-R/TNFRSF13C	Neat	Neat	—	—	—	65	3
βIG-H3	32	32	—	—	—	100	100
β-NGF	Neat	Neat	—	—	—	41	45
CCN4	—	—	—	—	—	13	11
Chordin	Neat	Neat	—	—	—	13	3
CINC-2/CXCL3	Neat	Neat	—	—	—	13	3
Cystatin C	500	500	—	—	—	100	100
DJ-1/PARK7	—	—	—	—	—	13	3
EPO	Neat	Neat	—	—	—	42	40
Fractalkine	Neat	Neat	—	—	—	42	40
GM-CSF	2	2	—	—	—	42	40
HAVCR1/KIM-1	4	4	—	—	—	42	40
ICAM-1	Neat	4	—	—	—	65	3
IFN-γ	4	4	4	—	—	42	40
IL-1α	4	4	—	—	—	42	40
IL-1β	4	4	—	—	—	42	40
IL-2	2	2	—	—	—	42	40
IL-4	4	4	—	—	—	42	40
IL-5	2	2	—	—	—	42	40
IL-6	4	4	—	—	—	42	40
IL-10	2	2	—	—	—	42	40
IL-13	Neat	Neat	—	—	—	42	40
IL-18	Neat	Neat	—	—	—	13	3
Jagged-1	4	4	—	—	—	100	100
KC/GRO	8	8	—	—	—	42	40
MCP-1	Neat	Neat	—	—	—	42	40
MIP-3α	Neat	Neat	—	—	—	42	40
MMP-9 (total)	Neat	Neat	—	—	—	65	3
NGFR/TNFRSF16	Neat	Neat	—	—	—	13	11
NGAL/LCN2	100	100	—	—	—	7	100
Osteopontin	—	—	10	—	—	29	100
RAGE (soluble)	4	4	—	—	—	13	11
Resistin	20	20	—	—	—	11	11
ROBO1	—	—	—	—	—	13	11
TIMP-1	20	20	—	—	—	11	5
TIMP-2	1,000	1,000	—	—	—	100	100
TNF-α	2	2	—	—	—	42	40
TNF-RII	32	32	—	—	—	100	100
TREM-1	2	2	—	—	—	41	45
TWEAK R/TNFRSF12	8	8	—	—	—	13	3
VEGF-A	Neat	Neat	—	—	—	42	40
VEGFR-2/KDR	16	16	—	—	—	13	3

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