R-PLEX™

NEW Matched Antibody Sets for Singleplex and Multiplex Assays with the Performance Benefits of MSD® MULTI-ARRAY Technology

NEW R-PLEX™ Antibody Sets are a fast, easy way to design a high-performance singleplex or multiplex immunoassay that delivers all of the advantages of MSD MULTI-ARRAY® technology.

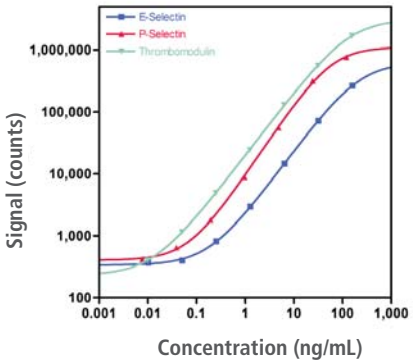
R-PLEX Antibody Set Components

- Biotinylated Capture Antibody
- SULFO-TAG™ labeled Detection Antibody
- Calibrator

Versatile

Choose the plate type depending on the specific application – singleplex assays are created on MSD GOLD™ Small Spot Streptavidin plates, while multiplex assays are designed by combining R-PLEX Antibody Sets on U-PLEX® plates. Need more assay options? R-PLEX assays can be multiplexed with our extensive selection of U-PLEX Antibody Sets.

Representative Calibration Curves and Sensitivity



Representative data from three R-PLEX Antibody Sets multiplexed on U-PLEX plates. The data represent the superior performance of MSD's MULTI-ARRAY technology with high sensitivity and large dynamic range.

The R-PLEX portfolio is well-suited to measure biomarkers in a wide range of research areas including cancer, inflammation, immunology, metabolism, obesity, cell signaling, and neurodegeneration. R-PLEX Antibody Sets are screened with relevant sample types including serum and plasma.

Human

Analyte	UniProt ID	Common Applications
A2M	P01023	inflammation
Adiponectin	Q15848	metabolism/obesity
AGP	P02763	aging, inflammation, metabolism
Ang-1	Q15389	angiogenesis, cardiovascular, cancer
Annexin A1	P04083	inflammation
ApoA1	P02647	atherosclerosis, metabolism/obesity
ApoC3	P02656	atherosclerosis, metabolism/obesity
BAFF-R	Q96RJ3	immunology, inflammation
BCMA	Q02223	immunology
BDNF	P23560	learning, memory
CA1	P00915	hypoxia, metabolism
CA125	Q8WXI7	cancer
CA15-3	P15941	cancer

Human

Analyte	UniProt ID	Common Applications
CA50	N/A	cancer
Calbindin	P05937	metabolism, neurobiology
Calprotectin	P05109	immunity, inflammation
Cathepsin D	P07339	cancer, neurobiology
CD31/PECAM-1	P16284	angiogenesis, cell adhesion
CEA	P06731	cancer
Clusterin	P10909	apoptosis, cell signaling, toxicology
Complement C3	P01024	cardiovascular, immunity, inflammation
Complement C9	P02748	cardiovascular, immunity, inflammation
Corin/ATC2	Q9Y5Q5	cardiovascular
Cystatin C	P01034	atherosclerosis, neurobiology, neurodegeneration, toxicology
Cytokeratin-8	P05787	cancer, cell signaling

Human

Analyte	UniProt ID	Common Applications
DPPIV	P27487	metabolism
E-Cadherin	P12830	cancer
Endoglin	P17813	angiogenesis, cancer, cardiovascular
Enolase 2	P09104	neurobiology
E-Selectin	P16581	cell adhesion, cell signaling
FAP-α/SEPR	Q12884	angiogenesis, apoptosis, cell adhesion
FasL	P48023	apoptosis, immunology
Fas (soluble)	P25445	apoptosis
FGF (basic)	P09038	angiogenesis, cancer
GDF-15	Q99988	cell signaling
Gelsolin	P06396	cell signaling
GFAP	P14136	neurobiology
GLP-1 (total)	P01275	metabolism/obesity
GLP-1 (active)	P01275	metabolism/obesity
GLP-1 (inactive)	P01275	metabolism/obesity
gp130 (soluble)	P40189	cell signaling
Haptoglobin	P00738	cardiovascular, immunity
ICAM-3	P32942	adhesion, immunology
IL-6R	P08887	immunity, immunology
LRRK2	Q5S007	neurobiology, neurodegeneration
LRRK2 (pS935)	Q5S007	neurobiology, neurodegeneration
Mesothelin	Q13421	cancer
MET (soluble)	P08581	cancer, cell signaling
MIG	P49682	immunity, immunology
MIP-4	P55774	cell signaling, immunity, inflammation
MMP-1	P03956	cancer, inflammation
MMP-3	P08254	angiogenesis, cancer, cardiovascular
MMP-7	P09237	angiogenesis, cancer, cardiovascular
MMP-9	P14780	angiogenesis, cancer, cardiovascular
Nectin-4	Q96NY8	cancer, infectious disease
Osteoactivin	Q14956	bone disorders, cancer
Osteocalcin	P02818	bone disorders
Osteonectin	P09486	bone disorders
Osteopontin	P10451	bone disorders, cancer, inflammation
Osteoprotegerin	O00300	bone disorders
P-Cadherin	P22223	cell adhesion, cell signaling
Pentraxin 3	P26022	immunity, infection, inflammation
PlGF	P49763	angiogenesis, cancer
PRDX-1	Q06830	oxidative stress, redox homeostasis
PRDX6	P30041	oxidative stress, redox homeostasis
P-Selectin	P16109	cardiovascular, cell adhesion
PSGL-1	Q14242	cell adhesion

Human

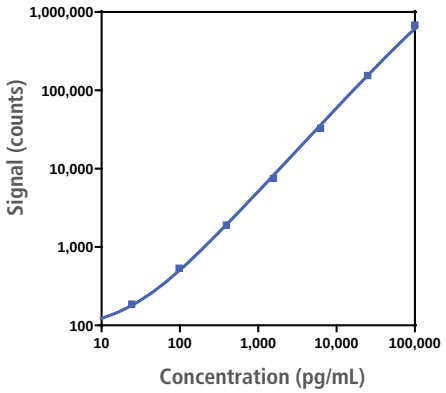
Analyte	UniProt ID	Common Applications
PYY (1-36)	P10082	metabolism/obesity
RANTES	P13501	immunology, inflammation
Resistin	Q9HD89	metabolism/obesity
S100A12	P80511	immunity, inflammation
S100A8/MRP8	P05109	immunity, inflammation
SCF	P21583	cell signaling, immunology
Serpin A1	P01009	cardiovascular, immunology
Serpin A12/Vaspin	Q8IW75	metabolism/obesity
Tenascin C	P24821	cancer, wound healing
TFF3	Q07654	inflammation, wound healing
TfR-1 (soluble)	P02786	iron uptake, metabolism
Thrombomodulin	P07204	cardiovascular, hemostasis
Tie-2	Q02763	angiogenesis, cell signaling
TIMP-1	P01033	angiogenesis, cancer, cardiovascular
TNF-RI	P19438	apoptosis, immunity, inflammation
TNF-RII	P20333	apoptosis, immunity, inflammation
TNFRSF10C	O14798	cancer, cell signaling
VEGF-D	O43915	angiogenesis, cancer, cell differentiation
VILIP-1	P62760	cell signaling
vWF	P04275	cardiovascular, coagulation

Rat analytes for immunological research

Analyte	UniProt ID
EPO	P29676
GM-CSF	P48750
IL-1α	P16598
IL-1β	Q63264
IL-2	P17108
IL-6	P20607
IL-10	P29456

Analyte	UniProt ID
IL-13	P42203
KC/GRO	P14095
MCP-1	P14844
MIP-3α	P97884
TNF-α	P16599
VEGF-A	P16612

Complement C9



R-PLEX Complement C9 Antibody Set displays a sensitivity of 19 pg/mL and a dynamic range of 19 - 100,000 pg/mL.

Customer Support

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