# )-PLEX®

## Human P-Selectin

www.mesoscale.com®	Product Options	Catalog Number	Description	
	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)	
Ordering Information MSD Customer Service Phone: 1-240-314-2795 : 1-301-990-2776	Singleplex	K151AHNK-1/-2/-4	U-PLEX Human P-Selectin Assay with SECTOR™ plates	
		K151AHNK-21/-22/-24	U-PLEX Human P-Selectin Assay with QuickPlex Ultra <sup>™</sup> plates	
		K251AHNK-2/-4	U-PLEX Human P-Selectin Assay with 384-well plates	
Email: CustomerService@	Antibody Set	B21AHN-2/-3	U-PLEX Human P-Selectin Antibody Set	
mesoscale.com	Protocol	U-PLEX Product Inserts are available at <u>www.mesoscale.com</u> .		

#### Scientific Support

Phone: 1-240-314-2798 Email: ScientificSupport@ mesoscale.com

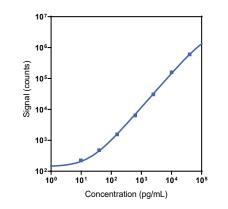
#### **Company Address**

Meso Scale Discovery, a divistion of Meso Scale Diagnostics

, LLC. 1601 Research Boulevard Rockville, MD 20850-3173 USA

#### The U-PLEX® platform was designed to provide ultimate flexibility for the detection of biomarkers in a wide variety of sample types. This datasheet provides the representative performance of the U-PLEX Human P-Selectin Assay tested on U-PLEX 96-well SECTOR plates run as a multiplex. The data do not represent the product specifications. Under your experimental conditions, the assay may perform differently from the representative data. U-PLEX assays are offered in either singleplex or multiplex; both are available on 96- or 384-well plates. See a U-PLEX product insert for instrument compatibility.

#### **Representative Calibration Curve and Sensitivity**



Assay	Median LLOD (pg/mL)	LLOD Range (pg/mL)	
P-Selectin	10.5	7.54–17.7	

The Calibrator curve was fitted with a 4-parameter logistic model with a 1/Y<sup>2</sup> weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

#### Precision

Control	Average Conc. (pg/mL)	Average Intra-run Conc. (%CV)	Inter-run Conc. (%CV)
High	8,090	2.1	6.8
Mid	2,437	2.0	7.9
Low	727	1.6	6.6

Controls were made by spiking Calibrator into assay diluent at 3 levels within the quantitative range of the assay. Average intra-run concentration %CV is the average %CV of the control replicates within an individual run. Inter-run concentration %CV is the variability of controls across multiple runs.

For Research Use Only. Not for use in diagnostic procedures.





### MSD® U-PLEX Human P-Selectin

#### Tested Samples

Sample Type	Serum (N = 9)	EDTA Plasma (N = 9)	Citrate Plasma (N = 9)	Normal Lysate (N = 5)	Tumor Lysate (N = 5)
Median (pg/mL)	171,000	118,000	89,700	5,310	842
Range (pg/mL)	113,000–320,000	59,800-245,000	44,900–136,000	432-18,700	664–5,110
% Detected	100	100	100	100	100

Normal serum and plasma samples were diluted 100-fold prior to testing in the assay. Lysates were tested at a protein concentration of 0.5 mg/mL.

#### Parallelism

Serum			EDTA Plasma		
Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range
50	98	94–103	50	93	48–102
200	98	94–103	200	102	98–108
400	101	96-105	400	106	98–118

Samples were tested at different dilutions. One hundred-fold diluted samples were tested to determine the expected concentration of the analyte.

% Recovery = (measured concentration / expected concentration) x 100

#### Spike Recovery

	Ser	um	EDTA Plasma		
Spike Level	Average % Recovery	% Recovery Range	Average% Recovery	% Recovery Range	
High	99	94–103	104	95–113	
Mid	119	109–130	109	104–119	
Low	113	103–129	101	97–108	

Samples were diluted 100-fold prior to addition of spike. The expected concentration of the analyte in spiked samples was calculated by addition of the Calibrator spike concentration to the unspiked sample concentration.

% Recovery = (measured concentration / expected concentration) x 100

#### Specificity

To assess specificity, the P-Selectin Antibody Set was tested individually against a larger panel of analytes for nonspecific binding: APRIL/TNFSF13, BAFF-R/TNFRSF13C, BCMA/TNFRSF17, CD20, CD27, CD276/B7-H3, CD28, CD40L (soluble), CTACK, CTLA-4, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, EPO, E-Selectin, FGF (basic), FLT3L, Fractalkine, G-CSF, Galectin-9, GITR/TNFRSF18, GITRL/TNFSF18, GM-CSF, gp130 (soluble), Granzyme A, Granzyme B, GRO- $\alpha$ , HAVCR2/TIM-3, HVEM/TNFRSF14, I-309, ICOS, ICOSL/B7-H2, IFN-  $\alpha$ 2a, IFN- $\beta$ , IEN- $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-1RA, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17A/F, IL-17D, IL-17D, IL-17E/IL 25, IL-17F, IL-18, IL-21, IL-22, IL-23, IL-27, IL-29/IFN-A1, IL-2R $\alpha$ , IL-31, IL-33, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IP-10, I-TAC, LAG-3, LIGHT/TNFSF14, MCP-1, MCP-2, MCP-4, M-CSF, MDC, MIF, MIG, MIP-1 $\alpha$ , MIP-5, MMP-1, MMP-2, MMP-7, MMP-9, Nectin-4, 0X40/TNFRSF4, PD1, PD-L1, PD-L2, Pentraxin 3, Perforin, PIGF, P-Selectin, RAGE (soluble), RANKL/TNFSF11, RANTES, S100A12, TARC, Tie-2, TIGIT, TLR-1, TNF-RI, TNF-RII, TNF- $\alpha$ , TNF- $\beta$ , TPO, TRAIL, TSLP, VEGF-A, VEGF-D, VEGFR-1/FIt-1 and YKL-40. Nonspecific binding was less than 2.0%.

% Nonspecificity = (nonspecific signal / specific signal) x 100

#### **Diluent Compatibility**

Diluents 58 and 3 are provided with this assay. MSD offers a range of assay and antibody diluents for separate purchase. Depending on your assay needs, other diluents may be tested.

#### Assay Components

Calibrator: P-Selectin is included in Calibrator 29. The human P-Selectin Calibrator is a full-length recombinant protein expressed in a human cell line.

Antibodies: The U-PLEX Human P-Selectin Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection.

#### Assay generation: A

Note: This datasheet contains representative assay performance data. In custom multiplex formats, the assay may perform differently from the representative data shown.

Note: MSD recommends that samples be diluted 100-fold prior to analysis in this assay.

MESO SCALE DISCOVERY, MESO SCALE DIAGNOSTICS, www.mesoscale.com, MSD, MSD (design), U-PLEX, U-PLEX (design), 96 WELL SMALL-SPOT (design), QuickPlex Ultra, SECTOR, and Spot the Difference are trademarks and/or service marks of Meso Scale Diagnostics, LLC. ©2016-2025 Meso Scale Diagnostics, LLC. All rights reserved.

