U-PLEX®

Human E-Selectin

www.mesoscale.com®

Ordering	Information	
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Scientific Support

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

Company Address

MESO SCALE DISCOVERY® A division of Meso Scale Diagnostics, LLC. 1601 Research Boulevard Rockville, MD 20850-3173 USA

om®	Product Options	Catalog Number	Description		
	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)		
		K151AGVK-1/-2/-4	U-PLEX Human E-Selectin Assay with SECTOR [™] plates		
5 Singleplex	K151AGVK-21/-22/-24	U-PLEX Human E-Selectin Assay with QuickPlex® plates			
		K251AGVK-2/-4	U-PLEX Human E-Selectin Assay with 384-well plates		
@	Antibody Set	B21AGV-2/-3	U-PLEX Human E-Selectin Antibody Set		
	Protocol U-PLEX Product Inserts are available at <u>www.mesoscale.com</u> .				

The U-PLEX® platform was designed to provide ultimate flexibility for the detection of biomarkers in a wide variety of sample types. This datasheet

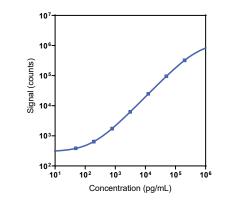
provides the representative performance of the U-PLEX Human E-Selectin Assay tested on U-PLEX 96-well SECTOR plates run as a multiplex. The

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)	
E-Selectin	45	28–159	

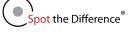
The Calibrator curve was fitted with a 4-parameter logistic model with a $1/Y^2$ weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

Precision

Control Average Conc. (pg/mL)		Average Intra-run Conc. (%CV)	Inter-run Conc. (%CV)	
High	21,100	1.5	4.3	
Mid	7,320	1.4	5.5	
Low	2,390	1.3	7.4	

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 E-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)	49,300	29,700	43,200	377	573
Range (pg/mL)	16,700-105,000	11,100-81,700	15,300–84,900	201–539	231–741
% Detected	100	100	100	100	100

Normal serum and plasma samples were diluted 4-fold prior to the assay. Lysates were tested at a protein concentration of 0.5 mg/mL.

Dilution Linearity

Serum			EDTA Plasma		
Fold Dilution Average % Recovery % Recovery Range		Fold Dilution	Average % Recovery	% Recovery Range	
2	114	85–126	2	53	39–73
8	97	86–115	8	118	109–140
16	93	76–125	16	120	100–153

Samples were spiked with calibrator and serially diluted. Percent recovery at each dilution was normalized to the dilution-adjusted 100-fold concentration. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

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

Spike Recovery

	Ser	rum	EDTA Plasma	
Spike Level	Average % Recovery % Recovery Range		Average% Recovery	% Recovery Range
52–72	104	74–122	81	55–96
54–68	109	82–120	88	69–100
58–79	108	84–120	92	76–105

Samples were spiked with calibrator at three levels within the range of the assay.

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

Specificity

The E-Selectin Antibody Set was tested for nonspecific binding against all of the analytes in the Immuno-Oncology Group 1 and the majority of analytes in Biomarker Group 1. Any cross-reactivity greater than 2.0% is noted below. The U-PLEX Assay Designer shows all of the compatible assays.

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

Diluent Compatibility

Diluents 58 and 3 are provided when this is ordered in singleplex and multiplex assays.

Assay Components

Calibrator: E-Selectin is included in Calibrator 27. The human E-Selectin Calibrator is a full-length recombinant protein.

Antibodies: The U-PLEX Human E-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.

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