

Human IL-16



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Ordering Information

MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ mesoscale.com

Scientific Support

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

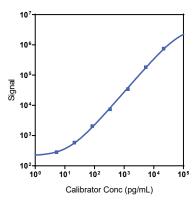
Company Address

Meso Scale Discovery A division of Meso Scale Diagnostics, LLC. 1601 Research Boulevard Rockville, MD 20850-3173 USA

Product Options	Catalog Number	Description	
Multiplex	K15067M, K25067M K151AEM, K251AEM K151ACM, K251ACM	U-PLEX Biomarker Group 1 (human) U-PLEX Immuno-Oncology Group 1 (human) U-PLEX Metabolic Group 1 (human)	
Singleplex	K151USK-1/-2/-4	U-PLEX Human IL-16 Assay with SECTOR™ plates	
	K151USK-21/-22/-24	U-PLEX Human IL-16 Assay with QuickPlex® plates	
	K251USK-2/-4	U-PLEX Human IL-16 Assay	
Antibody Set	B21US-2/-3	U-PLEX Human IL-16 Antibody Set	
Protocol	U-PLEX Product Inserts are available at http://www.mesoscale.com		

The MESO SCALE DISCOVERY® U-PLEX platform was designed to provide ultimate flexibility for detection of biomarkers in a wide variety of sample types. This datasheet provides the representative performance of the U-PLEX® Human IL-16 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)	
IL-16	6.6	4.3-8.7	

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	7,590	4.0	7.2
Mid	671	3.9	102
Low	75	6.1	15.9

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 IL-16

Tested Samples

Sample Type	Serum (N=10)	Plasma (N=10)	Spiked Plasma (N=5)	Spiked Serum (N=5)
Median (pg/mL)	85	142	213	160
Range (pg/mL)	68-124	66-240	99-304	112-207
% Detected	100	100	100	100

Normal serum and plasma samples were tested without dilution prior to the assay.

Dilution Linearity

Serum			EDTA Plasma		
Fold Dilution	Dilution		Fold Dilution	Average % Recovery	% Recovery Range
2	105	98-109	2	101	96-108
4	102	87-109	4	101	94-108
8	107	85-120	8	97	91-103

Normal human serum and EDTA plasma were spiked with Calibrator and tested at different dilutions. Undiluted samples were tested to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

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

Spike Recovery

	Ser	um	EDTA Plasma	
Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range
High	97	92-109	105	92-114
Mid	89	83-101	93	91-96
Low	85	80-96	92	90-96

Normal serum and plasma were spiked with Calibrator at 3 levels. Undiluted samples were tested to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

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

Specificity

To assess specificity, the IL-16 Antibody Set was tested individually against a larger panel of analytes for nonspecific binding (APRIL/TNFSF13, BAFF-R/TNFRSF13C, BCMA/TNFRSF17, BDNF, C-Peptide, CD20, CD27, CD28, CD40L (soluble), CD276/B7-H3, CTACK, CTLA-4, Desghrelin, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, EPO, E-Selectin, FGF (basic), FGF-23, FLT3L, Fractalkine, FSH, Galectin-9, G-CSF, GITRL/TNFSF18, GITR/TNFRSF18, Ghrelin (Ser3-octanoylated), gp130 (soluble), GIP (1–42), GIP (3–42), GLP-1 (7–36), GLP-1 (9–36), GM-CSF, Granzyme A, Granzyme B, GR0- α , HAVCR2/TIM-3, HVEM/TNFRSF14, ICOS, ICOS-L/B7-H2, I-309, IFN- α 2a, IFN- α 4, IL-1 α 5, IL-1 α 6, IL-1 α 7, IL-1 α 8, IL-1 α 8, IL-1 α 9, IL-1 α 9

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

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Diluent Compatibility

Diluents 57 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: IL-16 is included in Calibrator 3. The IL-16 Calibrator is a full-length recombinant protein expressed in E. coli.

Antibodies: The U-PLEX Human IL-16 Assay uses a mouse monoclonal antibody for capture and a goal polyclonal 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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