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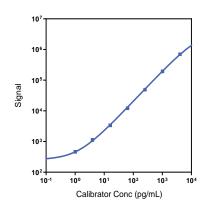
Company Address

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

Product Options	Catalog Number	Description			
Multiplex	K15068M, K25068M	U-PLEX Biomarker Group 1 (NHP)			
Singleplex	K156XNK-1/-2/-4	U-PLEX NHP IL-17B Assay with SECTOR™ plates			
	K156XNK-21/-22/-24	U-PLEX NHP IL-17B Assay with QuickPlex® plates			
	K256XNK-2/-4	U-PLEX NHP IL-17B Assay with 384-well plates			
Antibody Set	B21XN-2/-3	U-PLEX Human IL-17B Antibody Set			
Assay Protocol	U-PLEX Product Inserts are available at www.mesoscale.com				

The 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 NHP IL-17B Assay tested on U-PLEX 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 in 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-17B	0.79	0.41-0.92		

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 2.5X the standard deviations above the background (zero Calibrator).

Precision

_	Control	Average Conc. (pg/mL)	Average Intra-run Conc. %CV	Inter-run Conc. %CV
	High	1,170	7.0	17.3
IL-17B	Mid	245	4.6	15.1
	Low	45	9.9	24.0

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

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.

MSD® U-PLEX NHP IL-17B

Spike Recovery

			Serum (N=5)		Plasma (N=5)		Cell Culture Media (N=5)	
	Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range	
0	High	57	30-82	64	58-79	130	111-147	
Cynomolgus Monkey	Mid	52	27-77	55	49-71	133	124-145	
	Low	42	22-63	43	38-52	132	124-143	
Rhesus Monkey	High	72	54-85	61	31-104	130	111-147	
	Mid	74	56-90	56	28-98	133	124-145	
	Low	63	49-75	53	24-96	132	124-143	

Normal serum, EDTA plasma, and cell culture media 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

Tested Samples

	Sample Type	Serum (N=11)	Plasma (N=11)	Cell Culture Media (N=10)
Cynomolgus Monkey	Median (pg/mL)	ND	ND	NA
	Range (pg/mL)	ND-1.6	ND-0.8	NA
	% Detected	18	18	0
Rhesus Monkey	Median (pg/mL)	ND	1.3	ND
	Range (pg/mL)	ND-8.6	ND-11	ND-1.1
	% Detected	82	73	10

Normal serum and plasma samples were tested without dilution prior to the assay. ND = not detectable (<LLOD); NA = not applicable due to 0% detected

Dilution Linearity

	Serum (N=5)			Plasma (N=5)			Cell Culture Media (N=5)		
	Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range
Cynomolgus Monkey	2	139	115-179	2	143	118-172	2	118	115-122
	4	168	142-234	4	170	126-259	4	124	118-130
	8	191	140-289	8	200	148-351	8	131	128-136
Rhesus Monkey	2	134	119-172	2	130	122-141	2	118	115-122
	4	153	123-219	4	147	138-157	4	124	118-130
	8	169	127-268	8	165	149-188	8	131	128-136

Normal serum, EDTA plasma, and cell culture media 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





MSD U-PLEX NHP IL-17B

Specificity

To assess specificity, the IL-17B Antibody Set was tested individually against a larger panel of recombinant human analytes for nonspecific binding (CTACK, Eotaxin, Eotaxin-2, Eotaxin-3, ENA-78, FLT3L, Fractalkine, G-CSF, GM-CSF, GRO-α, I-309, IFN-α2a, IFN-γ, IL-1α, IL-1β, IL-1RA, IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17A/F, IL-17B, IL-17C, IL-17D, IL-17F, IL-18, IL-22, IL-23, IP-10, I–TAC, MCP-1, MCP-2, MCP-3, MCP-4, M-CSF, MDC, MIF, MIP-1α, MIP-1β, MIP-3α, MIP-3β, MIP-5, SDF-1α, TARC, TNF-α, TNF-β, TPO, TRAIL, VEGF-A, and YKL-40). Nonspecific binding was less than 0.5%.

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

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-17B is included in Calibrator 9. The full-length recombinant protein is expressed in a Chinese hamster cell line.

Antibodies: The U-PLEX NHP IL-17B Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection.

Assay generation: B

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

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