

# Mouse MCP-5/CCL12



### www.mesoscale.com®

### **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

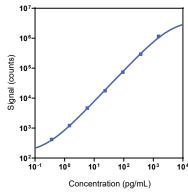
# **Company Address**

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

Product Options	Catalog Number	Description	
Multiplex	K15069M, K25069M K152ACM, K252ACM	U-PLEX Biomarker Group 1 (mouse) U-PLEX Metabolic Group 1 (mouse)	
Singleplex	K152Y1K-1/-2/-4	U-PLEX Mouse MCP-5/CCL12 Assay with SECTOR™ plates	
	K152Y1K-21/-22/-24	U-PLEX Mouse MCP-5/CCL12 Assay with QuickPlex Ultra™ plates	
	K252Y1K-2/-4	U-PLEX Mouse MCP-5/CCL12 Assay with 384-well plates	
Antibody Set	B22Y1-2/-3	U-PLEX Mouse MCP-5/CCL12 Antibody Set	
Protocol	U-PLEX Product Inserts are available at <a href="https://www.mesoscale.com">www.mesoscale.com</a>		

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® Mouse MCP-5/CCL12 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 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)	
MCP-5/CCL12	0.14	0.14-0.15	

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	173	3.6	8.4
Mid	29	2.6	10.5
Low	5.7	3.8	13.4

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 Mouse MCP-5/CCL12

### **Tested Samples**

Sample Type	Serum (N=6)	EDTA Plasma (N=6)
Median (pg/mL)	153	139
Range (pg/mL)	152-161	120-177
% Detected	100	100

Normal serum and plasma samples were diluted 2-fold prior to the assay.

### **Dilution Linearity**

Serum			EDTA Plasma		
Fold Dilution		% Recovery Range	Fold Dilution		% Recovery Range
2	124	109-133	2	126	121-134
4	147	120-167	4	138	133-142
8	155	124-182	8	143	135-154

Normal mouse 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	88	80-98	88	78-101
Mid	93	88-99	92	82-105
Low	98	94-103	98	90-106

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 MCP-5/CCL12 Antibody Set was tested individually against a larger panel of analytes for nonspecific binding (6CKine/CCL21, BAFF, BCA-1/BLC, CD40, Eotaxin, EP0, GM-CSF, IFN- $\alpha$ , IFN- $\beta$ , IFN- $\beta$ , IFN- $\beta$ , IL-1 $\beta$ , IL-1

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

### **Diluent Compatibility**

The data included in this document have been collected with Assay Diluent 41 and Antibody Diluent 45. 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: MCP-5/CCL12 is included in Calibrator 16. The mouse MCP-5/CCL12 Calibrator is a full-length recombinant protein expressed in E. coli.

Antibodies: The U-PLEX Mouse MCP-5/CCL12 Assay uses a rat monoclonal antibody for capture and a goat 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.

