

# **Human LAG3**



# www.mesoscale.com®

# **Ordering Information**

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### Scientific Support

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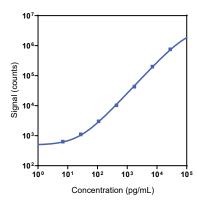
#### Company Address

MESO SCALE DISCOVERY®
A division of
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Rockville, MD 20850-3173 USA

Product Options	Catalog Number	Description	
Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)	
Singleplex	K151Q7K-1/-2/-4	U-PLEX Human LAG3 Assay with SECTOR™ plates	
	K151Q7K-21/-22/-24	U-PLEX Human LAG3 Assay with QuickPlex® plates	
	K251Q7K-2/-4	U-PLEX Human LAG3 Assay with 384-well plates	
Antibody Set	B21Q7-2/-3	U-PLEX Human LAG3 Antibody Set	
Protocol	U-PLEX Product Inserts are available at <a href="https://www.mesoscale.com">www.mesoscale.com</a>		

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 Human LAG3 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)	
LAG3	6.8	5.1-12	

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	4,730	6.1	8.5
Mid	1,260	5.5	8.4
Low	285	5.0	11.9

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 LAG3

### **Tested Samples**

Sample Type	Serum (N=10)	EDTA Plasma (N=10)	Normal Lysate (N=5)	Tumor Lysate (N=5)
Median (pg/mL)	1,890	2,020	162	1,040
Range (pg/mL)	1,100-3,630	1,270-4,160	ND-383	ND-2,050
% Detected	100	100	80	80

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. ND = non-detectable (<LLOD).

### **Dilution Linearity**

Serum			EDTA Plasma		
Fold Dilution	Fold Dilution		Fold Dilution	Average % Recovery	% Recovery Range
2	88	82 - 96	2	88	84 - 90
8	103	100 - 107	8	101	98 - 105
16	111	105 - 119	16	108	104 - 116

Normal human serum and EDTA plasma were spiked with Calibrator and tested at different dilutions. Percent recovery at each dilution level was normalized to the dilutionadjusted, 4-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	um	EDTA Plasma	
Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range
High	86	80 - 127	91	86 - 98
Mid	83	77 - 121	94	89 - 102
Low	81	72 - 123	90	85 - 97

Normal serum and EDTA plasma were spiked with Calibrator at 3 levels. Spiked samples were diluted 4-fold 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

The LAG3 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: LAG3 is included in Calibrator 23. The human LAG3 Calibrator is LAG3 (23-450) expressed in a human cell line.

Antibodies: The U-PLEX Human LAG3 Assay uses a mouse 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.

