

# Human LIGHT/TNFSF14



### www.mesoscale.com®

### **Ordering Information**

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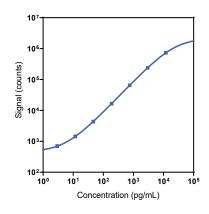
### Company Address

MESO SCALE DISCOVERY®
A division of
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1601 Research Boulevard
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Product Options	Catalog Number	Description	
Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)	
Singleplex	K151AHCK-1/-2/-4	U-PLEX Human LIGHT/TNFSF14 Assay with SECTOR™ plates	
	K151AHCK-21/-22/-24	U-PLEX Human LIGHT/TNFSF14 Assay with QuickPlex® plates	
	K251AHCK-2/-4	U-PLEX Human LIGHT/TNFSF14 Assay with 384-well plates	
Antibody Set	B21AHC-2/-3	U-PLEX Human LIGHT/TNFSF14 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 the detection of biomarkers in a wide variety of sample types. This datasheet provides the representative performance of the U-PLEX Human LIGHT/TNFSF14 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 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)	
LIGHT/TNFSF14	1.7	1.4 – 1.9	

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	1,999	4.1	6.7
Mid	441	2.1	6.1
Low	89	2.4	8.9

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 LIGHT/TNFSF14

## **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)	365	41	22	216	76
Range (pg/mL)	36–817	27–358	14–97	133–714	ND-596
% Detected	100	100	100	100	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	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range
50	96	90–102	50	92	87–98
200	103	99–110	200	104	94–110
400	105	100–109	400	111	96–122

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	um	EDTA Plasma	
Spike Level	Average % Recovery	% Recovery Range	Average% Recovery	% Recovery Range
High	108	94 - 114	117	103 - 125
Mid	110	99 - 119	121	105 - 134
Low	110	102 - 113	122	109 - 131

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

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

### Specificity

The LIGHT/TNFSF14 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: LIGHT/TNFSF14 is included in Calibrator 28. The human LIGHT/TNFSF14 Calibrator is a full-length recombinant protein expressed in a mouse cell line.

Antibodies: The U-PLEX Human LIGHT/TNFSF14 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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