PLEX® Human CD276/B7-H3

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	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)
Ordering Information MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ mesoscale.com	Singleplex	K151E7K-1/-2/-4	U-PLEX Human CD276/B7-H3 Assay with SECTOR™ plates
		K151E7K-21/-22/-24	U-PLEX Human CD276/B7-H3 Assay with $QuickPlex^{\circledast}$ plates
		K251E7K-2/-4	U-PLEX Human CD276/B7-H3 Assay with 384-well plates
	Antibody Set	B21E7-2/-3	U-PLEX Human CD276/B7-H3 Antibody Set
	Protocol	U-PLEX Product Inserts are available at <u>www.mesoscale.com</u>	

Description

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 CD276/B7-H3 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

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

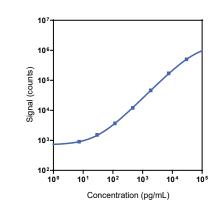
Company Address

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

Representative Calibration Curve and Sensitivity

instrument compatibility.

Product Ontions Catalog Number



Assay	Median LLOD (pg/mL)	LLOD Range (pg/mL)	
CD276/B7-H3	4.0	1.9-10	

The Calibrator curve was fitted with a 4-parameter logistic model with a 1/Y² 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	3,920	3.4	7.2
Mid	825	3.3	6.5
Low	168	4.3	10.2

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 CD276/B7-H3

Tested Samples

Sample Type	Serum (N=10)	EDTA Plasma (N=10)	Normal Lysate (N=5)	Tumor Lysate (N=5)
Median (pg/mL)	1,550	1,350	717	1,530
Range (pg/mL)	1,310-2,050	1,100-1,700	496-1,210	518-2,860
% Detected	100	100	100	100

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.

Dilution Linearity

Serum			EDTA Plasma		
Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution Average % Recovery		% Recovery Range
2	97	95 - 101	96	88 - 103	97
8	96	95 - 97	97	94 - 100	96
16	93	89 - 104	94	90 - 98	93

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	96	90 - 103	92	88 - 99
Mid	91	58 - 109	97	91 - 105
Low	112	92 - 154	94	88 - 98

Normal serum and 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 CD276/B7-H3 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 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: CD276/B7-H3 is included in Calibrator 20. The human CD276/B7-H3 Calibrator is CD276 (29–245) expressed in a mouse cell line. **Antibodies:** The U-PLEX Human CD276/B7-H3 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.

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