

Human ENA-78



www.mesoscale.com®

Ordering Information

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Scientific Support

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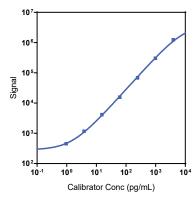
Company Address

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

Product Options	Catalog Number	Description	
Multiplex	K15067M, K25067M K151AEM, K251AEM K151ACM, K251ACM	U-PLEX Biomarker Group 1 (human) U-PLEX Immuno-Oncology Group 1 (human) U-PLEX Metabolic Group 1 (human)	
Singleplex	K151VEK-1/-2/-4	U-PLEX Human ENA-78 Assay with SECTOR™ plates	
	K151VEK-21	U-PLEX Human ENA-78 Assay with QuickPlex® APT plates	
	K151VEK-2/-4	U-PLEX Human ENA-78 Assay with 384-well plates	
Antibody Set	B21VE-2/-3	U-PLEX Human ENA-78 Antibody Set	
Protocol	U-PLEX Product Inserts are available at http://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 Human ENA-78 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)
ENA-78	0.53	0.31-1.1

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	1,730	3.9	6.2
Mid	144	3.3	7.8
Low	15	4.8	11.6

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 ENA-78

Tested Samples

Sample Type	Serum (N=10)	Plasma (N=10)	Spiked Plasma (N=5)	Spiked Serum (N=5)
Median (pg/mL)	150	191	197	402
Range (pg/mL)	53-421	117-553	164-994	299-716
% Detected	100	100	100	100

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

Dilution Linearity

Serum			EDTA Plasma		
Fold Dilution	Fold Dilution		Fold Dilution	Average % Recovery	% Recovery Range
2	103	97-108	2	99	93-104
4	109	102-119	4	98	92-105
8	111	104-123	8	93	83-104

Normal human serum and EDTA plasma were spiked with Calibrator and tested at different dilutions. Two-fold diluted 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

	Sei	rum	EDTA Plasma		
Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range	
High	89	86-91	101	98-103	
Mid	93	87-96	99	87-104	
Low	96	91-100	99	91-105	

Normal serum and plasma were spiked with Calibrator at 3 levels. Two-fold diluted 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

The ENA-78 Antibody Set was tested against all of the analytes in Biomarker Group 1, Metabolic Group 1, and Immuno-Oncology Group 1. Any non-specific binding 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 57 and 3 are provided when this product is ordered in singleplex and when multiplexed with other Biomarker Group 1 assays. Other diluents may be provided when combined with assays from other U-PLEX Groups. See the appropriate Product Insert for details.

Assay Components

Calibrator: ENA-78 is included in Calibrator 4. The ENA-78 Calibrator is a full-length recombinant protein expressed in E. coli.

Antibodies: The U-PLEX Human ENA-78 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.

