

Human Pentraxin 3

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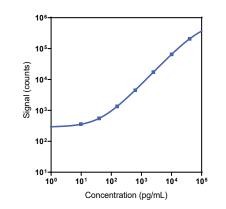
Meso Scale Discovery, a divistion of Meso Scale Diagnostics

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om®	Product Options	Catalog Number	Description	
	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)	
า		K151AGZK-1/-2/-4	U-PLEX Human Pentraxin 3 Assay with SECTOR™ plates	
	Singleplex	K151AGZK-21/-22/-24	U-PLEX Human Pentraxin 3 Assay with QuickPlex Ultra™ plates	
95 76		K251AGZK-2/-4	U-PLEX Human Pentraxin 3 Assay with 384-well plates	
e@	Antibody Set	B21AGZ-2/-3	U-PLEX Human Pentraxin 3 Antibody Set	
	Protocol	U-PLEX Product Inserts are available at <u>www.mesoscale.com</u> .		

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 Pentraxin 3 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)	
Pentraxin 3	11.7	7.68–20.5	

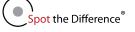
The Calibrator curve was fitted with a 4-parameter logistic model with a $1/Y^2$ weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

Precision

Control	Average Conc. (pg/mL)	Average Intra-run Conc. (%CV)	Inter-run Conc. (%CV)	
High	5,780	3.4	4.2	
Mid	2,347	2.2	3.9	
Low	913	2.3	6.4	

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.





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)	8,830	5,530	4,930	6,360	14,700
Range (pg/mL)	4,960-20,300	3,730–23,600	3,050–17,500	5,430-24,200	2,160–38,000
% Detected	100	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	94	89–99	2	103	98–127
8	102	96–105	8	102	97–107
16	101	92-109	16	102	96–114

Samples were spiked with calibrator and serially diluted. Percent recovery at each dilution was normalized to the dilution-adjusted 4 (or 100)-fold concentration. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

% Recovery = (measured concentration/expected concentration) \times 100

Spike Recovery

	Ser	um	EDTA Plasma		
Spike Level	Average % Recovery % Recovery Range		Average% Recovery	% Recovery Range	
High	100	95–107	103	94–108	
Mid	103	98–106	103	94–109	
Low	105	101–108	103	101–110	

Samples were spiked with calibrator at three levels within the range of the assay. Percent recovery was calculated as % Recovery = (measured concentration/(spike + endogenous concentrations)) X 100.

Specificity

To assess specificity, the Pentraxin 3 Antibody Set was tested individually against a larger panel of analytes for nonspecific binding: APRIL/TNFSF13, BAFF-R/TNFRSF13C, BCMA/TNFRSF17, CD20, CD27, CD276/B7-H3, CD28, CD40L (soluble), CTACK, CTLA-4, ENA-78, Eotaxin, Eotaxin-2, Eotaxin-3, EPO, E-Selectin, FGF (basic), FLT3L, Fractalkine, G-CSF, Galectin-9, GITR/TNFRSF18, GITRL/TNFSF18, GM-CSF, gp130 (soluble), Granzyme A, Granzyme B, GRO- α , HAVCR2/TIM-3, HVEM/TNFRSF14, I-309, ICOS, ICOSL/B7-H2, IFN- α 2a, IFN- β , IEN- γ , IL-1 α , IL-1 β , IL-1RA, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17A/F, IL-17D, IL-17D, IL-17E/IL 25, IL-17F, IL-18, IL-21, IL-22, IL-23, IL-27, IL-29/IFN-A1, IL-2R α , IL-3, IL-31, IL-33, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IP-10, I-TAC, LAG-3, LIGHT/TNFSF14, MCP-1, MCP-2, MCP-4, M-CSF, MDC, MIF, MIG, MIP-1 α , MIP-5, MMP-1, MMP-2, MMP-7, MMP-9, Nectin-4, OX40/TNFRSF4, PD1, PD-L1, PD-L2, Pentraxin 3, Perforin, PIGF, P-Selectin, RAGE (soluble), RANKL/TNFSF11, RANTES, S100A12, TARC, Tie-2, TIGIT, TLR-1, TNF-RI, TNF-RI, TNF- α , TNF- β , TPO, TRAIL, TSLP, VEGF-A, VEGF-D, VEGFR-1/FIt-1 and YKL-40. Nonspecific binding was less than 2.0%.

% Nonspecificity = (nonspecific signal / specific signal) \times 100

Diluent Compatibility

Diluents 58 and 3 are provided with this assay. 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: Pentraxin 3 is included in Calibrator 27. The human Pentraxin 3 Calibrator is a full-length recombinant protein expressed in a hamster cell line.

Antibodies: The U-PLEX Human Pentraxin 3 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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