

Human GITRL/TNFSF18



www.mesoscale.com®

Ordering Information

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Scientific Support

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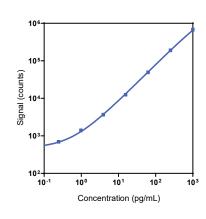
Company Address

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

| Product Options | Catalog Number | Description | |
|-----------------|---|---|--|
| Multiplex | K151AEM, K251AEM | U-PLEX Immuno-Oncology Group 1 (human) | |
| Singleplex | K151S7K-1/-2/-4 | U-PLEX Human GITRL/TNFSF18 Assay with SECTOR™ plates | |
| | K151S7K-21/-22/-24 | U-PLEX Human GITRL/TNFSF18 Assay with QuickPlex® plates | |
| | K151S7K-1/-2/-4 | U-PLEX Human GITRL/TNFSF18 Assay with 384-well plates | |
| Antibody Set | B22S7-2/-3 | U-PLEX Human GITRL/TNFSF18 Antibody Set | |
| Protocol | U-PLEX Product Inserts are available at 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 GITRL/TNFSF18 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) | |
|---------------|------------------------|-----------------------|--|
| GITRL/TNFSF18 | 0.09 | 0.04-0.17 | |

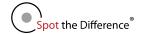
The Calibrator curve was fitted with a 4-parameter logistic model with a $1/Y^2$ weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

Precision

| Control | Average Conc. (pg/mL) | Average Intra-run Conc. (%CV) | Inter-run Conc. (%CV) |
|---------|--------------------------|----------------------------------|--------------------------|
| High | 126 | 5.1 | 5.9 |
| Mid | 27 | 3.9 | 6.9 |
| Low | 5.3 | 4.6 | 14.3 |

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 GITRL/TNFSF18

Tested Samples

| Sample Type | Serum (N=10) | EDTA Plasma (N=10) | Normal Lysate (N=5) | Tumor Lysate (N=5) |
|----------------|-----------------|-----------------------|------------------------|-----------------------|
| Median (pg/mL) | 0.78 | 0.93 | 0.50 | 0.55 |
| Range (pg/mL) | 0.54-1.2 | ND-2.1 | ND-0.61 | 0.39-0.82 |
| % Detected | 100 | 90 | 60 | 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. ND = non-detectable (<LLOD).

Dilution Linearity

| Serum | | | EDTA Plasma | | |
|---------------|--------------------|------------------|---------------|--------------------|------------------|
| Fold Dilution | Average % Recovery | % Recovery Range | Fold Dilution | Average % Recovery | % Recovery Range |
| 2 | 91 | 89 - 94 | 2 | 90 | 84 - 94 |
| 8 | 104 | 101 - 106 | 8 | 104 | 101 - 106 |
| 16 | 103 | 99 - 108 | 16 | 104 | 100 - 108 |

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 | 93 | 81 - 100 | 90 | 83 - 95 |
| Mid | 82 | 46 - 104 | 93 | 85 - 99 |
| Low | 115 | 86 - 188 | 90 | 82 - 96 |

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 GITRL/TNFSF18 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: GITRL/TNFSF18 is included in Calibrator 20. The human GITRL/TNFSF18 Calibrator is GITRL (74-199) expressed in an insect cell line.

Antibodies: The U-PLEX Human GITRL/TNFSF18 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.

