



Human Triggering Receptor Expresses on Myeloid Cells-1, TREM-1 ELISA Kit

Product Code	CSB-E04836h
Abbreviation	TREM1
Target Name	triggering receptor expressed on myeloid cells 1
Uniprot No.	Q9NP99
Alias	TREM-1, triggering-receptor TREM1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	TREM1
Tag Info	quantitative
Protein Description	Sandwich

Description

CUSABIO's human TREM1 ELISA kit is an in vitro enzyme-linked immunosorbent assay for quantitatively measuring human TREM1 in serum, plasma, or tissue homogenates. This assay uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of TREM1 in samples. The color intensity is measured at 450 nm via a microplate reader.

TREM1, an activating receptor expressed on myeloid cells, has the synergistic ability to amplify the signaling of the TLR4 or TLR2, which can recognize components of a variety of microorganisms including bacteria, fungi, and viruses. TREM1 mainly augments inflammation during acute inflammation and is upregulated during sepsis and pulmonary infection. It has been recognized as a critical immunomodulator in several inflammatory diseases of both infectious and non-infectious etiologies such as inflammatory bowel disease, acute pancreatitis, gouty arthritis, and atherosclerosis.


Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human TREM-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	97
	Range %	92-102
1:2	Average %	90
	Range %	82-97
1:4	Average %	104
	Range %	99-110
1:8	Average %	86
	Range %	82-93

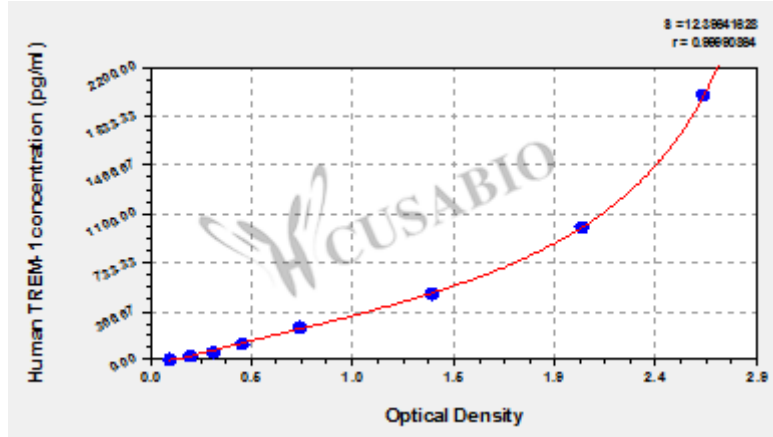
Recovery

The recovery of human TREM-1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	90	84-96
EDTA plasma (n=4)	96	90-101

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.529	2.752	2.641	2.538
1000	2.038	2.079	2.059	1.956
500	1.304	1.389	1.347	1.244
250	0.701	0.733	0.717	0.614
125	0.441	0.455	0.448	0.345
62.5	0.302	0.326	0.314	0.211
31.25	0.205	0.201	0.203	0.100
0	0.104	0.101	0.103	?

Msds

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