Human mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor) (MASP1)ELISA kit

Product Code	CSB-E17965h
Abbreviation	MASP1
Protein Biological Process 1	Complement
Target Name	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)
Uniprot No.	P48740
Alias	CRARF, CRARF1, DKFZp686I01199, FLJ26383, MASP, MGC126283, MGC126284, PRSS5, RaRF, Ra-reactive factor serine protease p100|manan-binding lectin serine protease-1|mannan-binding lectin serine protease
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Complement activation lectin pathway
Sample Types	serum, plasma, tissue homogenates
Detection Range	3.12 ng/mL-200 ng/mL
Sensitivity	0.78 ng/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	MASP1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human MASP1 ELISA Kit was designed for the quantitative measurement of Human MASP1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 3.12 ng/mL-200 ng/mL and the sensitivity is 0.78 ng/mL.

Target Details

The Ra-reactive factor (RARF) is a complement-dependent bactericidal factor that binds to the Ra and R2 polysaccharides expressed by certain enterobacteria. Alternate splicing of this gene results in multiple transcript variants encoding two RARF components that are involved in the mannan-binding lectin (MBL) pathway of complement activation. Two of the isoforms are cleaved into two chains which form a heterodimer linked by a disulfide bond. The encoded proteins are members of the trypsin family of peptidases.

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 MASP1 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)
1:100	Average %	96
	Range %	91-99
1:200	Average %	100
	Range %	95-104
1:400	Average %	94
	Range %	89-98
1:800	Average %	99
	Range %	93-103

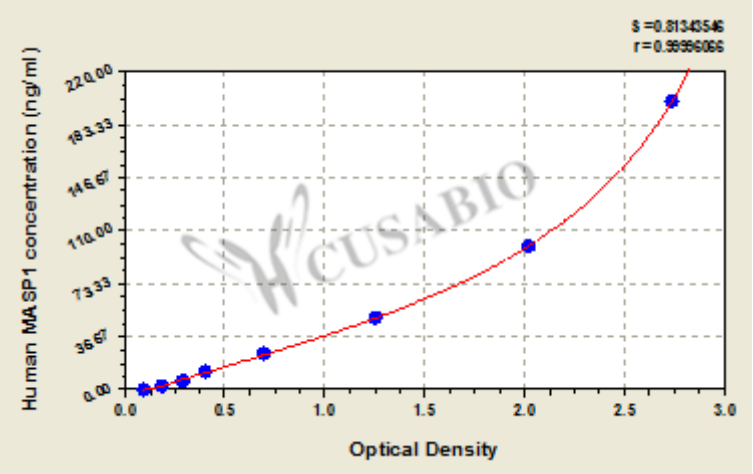
Recovery

The recovery of human MASP1 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)	94	88-97
EDTA plasma (n=4)	94	90-97

Typical

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



ng/ml	OD1	OD2	Average	Corrected
200	2.797	2.646	2.722	2.616
100	2.026	2.000	2.013	1.907
50	1.255	1.244	1.250	1.144
25	0.701	0.698	0.700	0.594
12.5	0.416	0.403	0.410	0.304
6.25	0.302	0.297	0.300	0.194
3.12	0.187	0.196	0.192	0.086
0	0.108	0.104	0.106	

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