Mouse Macrophage mannose receptor 1(MRC1) ELISA kit

Product Code	CSB-EL014782MO
Abbreviation	MRC1
Protein Biological Process 1	Immunity
Target Name	mannose receptor, C type 1
Uniprot No.	Q61830
Alias	RP11-457D2.1, CD206, CLEC13D, MMR, macrophage mannose receptor 1|mannose receptor C type 1
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Endocytosis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.625 ng/mL-40 ng/mL
Sensitivity	0.156 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	Mrc1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse MRC1 ELISA Kit was designed for the quantitative measurement of Mouse MRC1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.625 ng/mL-40 ng/mL and the sensitivity is 0.156 ng/mL.
Target Details	The recognition of complex carbohydrate structures on glycoproteins is an important part of several biological processes, including cell-cell recognition, serum glycoprotein turnover, and neutralization of pathogens. This protein is a type I membrane receptor that mediates the endocytosis of glycoproteins by

macrophages. The protein has been shown to bind high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi so that they can be neutralized by phagocytic engulfment. This gene is in close proximity to MRC1L1. The gene loci including this gene, MRC1L1, as well as LOC340843 and LOC340893, consist of two nearly identical, tandemly linked genomic regions, which are thought to be a part of a duplicated region.

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 mouse MRC1 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 %	88
	Range %	81-92
1:2	Average %	100
	Range %	93-104
1:4	Average %	90
	Range %	85-95
1:8	Average %	99
	Range %	91-103

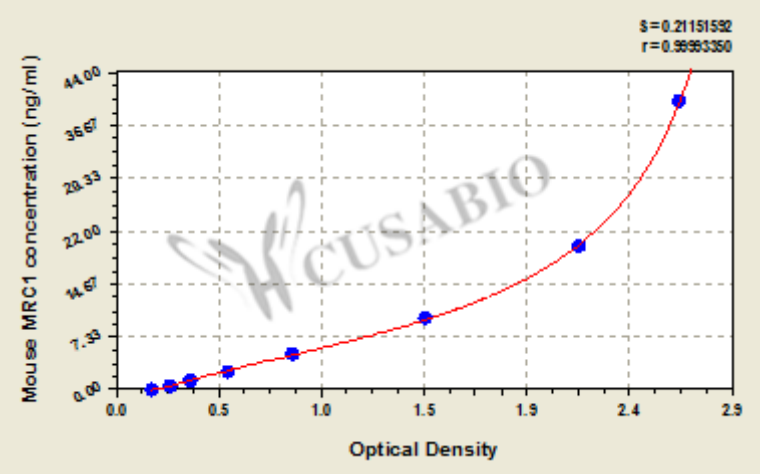
Recovery

The recovery of mouse MRC1 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)	92	85-96
EDTA plasma (n=4)	100	90-104

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
40	2.716	2.578	2.647	2.462
20	2.167	2.187	2.177	1.992
10	1.451	1.478	1.465	1.280
5	0.857	0.823	0.840	0.655
2.5	0.536	0.545	0.541	0.356
1.25	0.371	0.359	0.365	0.180
0.625	0.274	0.266	0.270	0.085
0	0.188	0.182	0.185	

Msds {"0":{"fileurl":"https://www.cusabio.com/uploadfile/msds/MSDS CSB-EL014782MO.pdf","filename":"MSDS"}}