Mouse Integrin alpha-M (Itgam/CD11b) ELISA Kit

Product Code	CSB-E17417m
Abbreviation	Itgam/CD11b
Protein Biological Process 1	Cell Adhesion
Target Name	Integrin alpha-M (Itgam/CD11b)
Uniprot No.	P05555
Alias	CD11B, CR3A, MAC-1, MAC1A, MGC117044, MO1A, SLEB6, antigen CD11b (p170)|integrin alpha M|macrophage antigen alpha polypeptide|neutrophil adherence receptor alpha-M subunit
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Protein Biological Process 3	Cell adhesion
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Signal Transduction
Gene Names	Itgam
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse Itgam/CD11b ELISA Kit was designed for the quantitative measurement of Mouse Itgam/CD11b protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
Target Details	This gene encodes the integrin alpha M chain. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This I-domain containing alpha integrin combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as macrophage receptor 1 (Mac-1), or inactivated-C3b (iC3b) receptor 3 (CR3). The alpha M beta 2 integrin is important in the adherence of neutrophils and monocytes to stimulated

endothelium, and also in the phagocytosis of complement coated particles. Multiple transcript variants encoding different isoforms have been found for this gene.

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 Itgam/CD11b 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 %	86
	Range %	81-90
1:200	Average %	103
	Range %	99-108
1:400	Average %	97
	Range %	92-101
1:800	Average %	90
	Range %	86-94

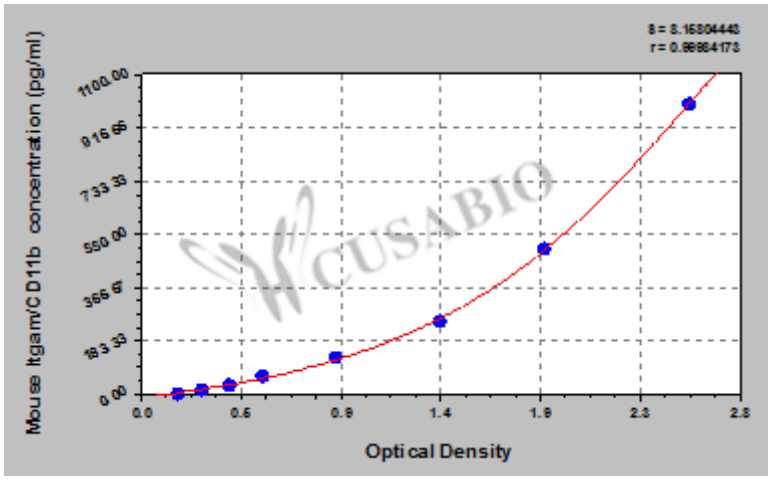
Recovery

The recovery of mouse Itgam/CD11b 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)	95	90-100
EDTA plasma (n=4)	88	84-92

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
1000	2.603	2.527	2.565	2.376
500	1.920	1.865	1.893	1.704
250	1.367	1.441	1.404	1.215
125	0.905	0.928	0.917	0.728
62.5	0.586	0.574	0.580	0.391
31.2	0.439	0.419	0.429	0.240
15.6	0.291	0.304	0.298	0.109
0	0.186	0.192	0.189	?

Msds

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