CD11b Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD11b, Antibody
Full Product Name	FITC Anti-Human CD11b Antibody
Product Gene Name	anti-CD11b antibody
Product Synonym Names	Integrin alpha-M, Itgam, CD11 antigen-like family member B, CR-3 alpha chain, Leukocyte adhesion receptor MO1, CD11b
Isotype	Rat IgG2a, kappa
Host	Mouse
Species Reactivity	Human
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2~8 degree C and protected from prolonged exposure to light. Do not freeze.
Molecular Weight	127,179 Da
OMIM	120980
3D Structure	ModBase 3D Structure for P11215
Conjugation	FITC
Product Categories/Family for anti-CD11b antibody	Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CD11b antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD11b antibody	MBS4514664 is an antibody targeting CD11b. Also known as FITC Anti-Human CD11b Antibody. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD11b antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD11b. It may not necessarily be applicable to this product.

NCBI GI #	224831239
NCBI GeneID	3684
NCBI Accession #	NP_001139280.1
UniProt Primary Accession #	P11215
UniProt Secondary Accession #	Q4VAK0; Q4VAK1; Q4VAK2
UniProt Related Accession #	P11215
GenBank Nucleotide #	NM_001145808.1

NCBI Official Full Name	integrin alpha-M isoform 1
NCBI Official Synonym Full Names	integrin, alpha M (complement component 3 receptor 3 subunit)
NCBI Official Symbol	ITGAM
NCBI Official Synonym Symbols	CR3A; MO1A; CD11B; MAC-1; MAC1A; SLEB6
UniProt Protein Name	Integrin alpha-M
UniProt Synonym Protein Names	CD11 antigen-like family member B; CR-3 alpha chain; Cell surface glycoprotein MAC-1 subunit alpha; Leukocyte adhesion receptor MO1; Neutrophil adherence receptor
Protein Family	Integrin
UniProt Gene Name	ITGAM
UniProt Synonym Gene Names	CD11B; CR3A
UniProt Entry Name	ITAM_HUMAN
NCBI Protein Information	integrin alpha-M; CR-3 alpha chain; antigen CD11b (p170); leukocyte adhesion receptor MO1; CD11 antigen-like family member B; macrophage antigen alpha polypeptide; cell surface glycoprotein MAC-1 subunit alpha; neutrophil adherence receptor alpha-M subuni
NCBI Summary for CD11b	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. [provided by RefSeq, Mar 2009]
UniProt Comments for CD11b	ITGAM: a single-pass type I membrane protein of the integrin alpha chain family. Implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. Also known as CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the RGD peptide in C3b. A receptor for fibrinogen, factor X and ICAM1. Heterodimer of an alpha and a beta subunit. Alpha-M associates with beta-2. Predominantly expressed in monocytes and granulocytes. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Cell adhesion Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cell surface; plasma membrane; integrin complex; nucleus; external side of plasma membrane Molecular Function: heparan sulfate proteoglycan binding; heparin binding; protein binding; opsonin binding; protein heterodimerization activity; metal ion binding; glycoprotein binding Biological Process: integrin-mediated signaling pathway; neutrophil chemotaxis; extracellular matrix organization and biogenesis; microglia development; activated T cell proliferation; leukocyte migration during inflammatory response; cellular extravasation; toll-like receptor signaling pathway; innate immune response; cell adhesion; blood coagulation; toll-like receptor 4 signaling pathway; leukocyte migration Disease: Systemic Lupus Erythematosus, Susceptibility To, 6
Research Articles on CD11b	**1.** Complement receptor 3 (CR3) inhibition impairs phagocytosis of serum-opsonized zymosan but has little impact on phagocytosis of unopsonized zymosan in the absence or presence of lipopolysaccharide.
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