CD11b Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD11b, Antibody
Full Product Name	CD11b Biotin
Product Gene Name	anti-CD11b antibody
Isotype	IgG2a
Clone Number	F6.2
Host	Mouse
Species Reactivity	Human
Purity/Purification	Protein A/G Chromatography
Preparation and Storage	Store at 4 degree C.
Molecular Weight	127,179 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (31271288..31344213). Location: 16p11.2
OMIM	120980
3D Structure	ModBase 3D Structure for P11215
Product Categories/Family for anti-CD11b antibody	Single-Color Reagent; Single Color Markers
Applications Tested/Suitable for anti-CD11b antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD11b antibody	MBS396643 is an antibody targeting CD11b. Also known as CD11b Biotin. 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 #	88501734
NCBI GeneID	3684
NCBI Accession #	NP_000623.2
UniProt Primary Accession #	P11215
UniProt Secondary Accession #	Q4VAK0; Q4VAK1; Q4VAK2
UniProt Related Accession #	P11215
GenBank Nucleotide #	NM_000632.3
NCBI Official Full Name	integrin alpha-M isoform 2
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 subunit
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	Function: Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin alpha-M/beta-2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. Subunit structure: Heterodimer of an alpha and a beta subunit. Alpha-M associates with beta-2. Interacts with JAM3. Ref.10 Ref.11 Subcellular location: Membrane; Single-pass type I membrane protein. Tissue specificity: Predominantly expressed in monocytes and granulocytes. Domain: The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage. Involvement in disease: Systemic lupus erythematosus 6 (SLEB6) [MIM:609939]: A chronic, relapsing, inflammatory, and often febrile multisystemic disorder of connective tissue, characterized principally by involvement of the skin, joints, kidneys and serosal membranes. It is of unknown etiology, but is thought to represent a failure of the regulatory mechanisms of the autoimmune system. The disease is marked by a wide range of system dysfunctions, an elevated erythrocyte sedimentation rate, and the formation of LE cells in the blood or bone marrow.Note: Disease susceptibility may be associated with variations affecting the gene represented in this entry. Sequence similarities: Belongs to the integrin alpha chain family.Contains 7 FG-GAP repeats.Contains 1 VWFA domain.
Research Articles on CD11b	**1.** There was no difference in neutrophil or monocyte CD11b expression among 4 study groups (sepsis (S), septic shock (SS), traumatic brain injury (TBI), controls (C)). Lymphocyte CD11b showed lower values in SS compared to C and TBI or S.
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