CD18 Antibody – Mouse

PRODUCT OVERVIEW

Product Name	CD18, Antibody
Full Product Name	FITC Anti-Human CD18 Antibody
Product Gene Name	anti-CD18 antibody
Product Synonym Names	Integrin beta-2, Itgb2, Cell surface adhesion glycoproteins LFA-1/CR3/p150+95 subunit beta, Complement receptor C3 subunit beta, CD18
Isotype	Mouse IgG1, 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	84,782 Da
Chromosome Location	Chromosome: 21; NC_000021.8 (46305868..46348753, complement). Location: 21q22.3
OMIM	116920
3D Structure	ModBase 3D Structure for P05107
Conjugation	FITC
Product Categories/Family for anti-CD18 antibody	Flow Cytometry Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-CD18 antibody	Flow Cytometry (FC/FACS/FCM)
Related Product Information for anti-CD18 antibody	MBS4515272 is an antibody targeting CD18. Also known as FITC Anti-Human CD18 Antibody. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-CD18 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 CD18. It may not necessarily be applicable to this product.

NCBI GI #	89191865
NCBI GeneID	3689
NCBI Accession #	NP_000202.2
UniProt Primary Accession #	P05107
UniProt Secondary Accession #	Q16418; Q53HS5; Q9UD72; B3KTS8; D3DSM1
UniProt Related Accession #	P05107

GenBank Nucleotide #	NM_000211.3
NCBI Official Full Name	integrin beta-2
NCBI Official Synonym Full Names	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
NCBI Official Symbol	ITGB2
NCBI Official Synonym Symbols	LAD; CD18; MF17; MFI7; LCAMB; LFA-1; MAC-1
UniProt Protein Name	Integrin beta-2
UniProt Synonym Protein Names	Cell surface adhesion glycoproteins LFA-1/CR3/p150,95 subunit beta; Complement receptor C3 subunit beta
Protein Family	CD180 antigen
UniProt Gene Name	ITGB2
UniProt Synonym Gene Names	CD18; MFI7
UniProt Entry Name	ITB2_HUMAN
NCBI Protein Information	integrin beta-2; integrin beta chain, beta 2; complement receptor C3 beta-subunit; complement receptor C3 subunit beta; leukocyte cell adhesion molecule CD18; leukocyte-associated antigens CD18/11A, CD18/11B, CD18/11C; cell surface adhesion glycoproteins
NCBI Summary for CD18	The product of this gene belongs to the integrin beta chain family of proteins. Integrins are integral cell-surface proteins composed of an alpha chain and a beta chain. This gene encodes the integrin beta chain beta 2. A given chain may combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Integrins are known to participate in cell adhesion as well as cell-surface mediated signalling. Defects in this gene are the cause of leukocyte adhesion deficiency type I (LAD1). Two transcript variants encoding the same protein have been identified for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for CD18	ITGB2: the integrin beta 2 subunit. Can combine with multiple partners resulting in different integrins. For example, beta 2 combines with the alpha L chain to form the integrin LFA-1, and combines with the alpha M chain to form the integrin Mac-1. Participates in cell adhesion as well as cell-surface mediated signaling. Defects are the cause of leukocyte adhesion deficiency type I (LAD1). Protein type: Receptor, misc.; Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis; Cell surface Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: cell surface; membrane; plasma membrane; integrin complex; receptor complex; vesicle; lipid raft Molecular Function: protein binding; protein heterodimerization activity; metal ion binding; protein complex binding; cell adhesion molecule binding; ICAM-3 receptor activity; glycoprotein binding; protein kinase binding Biological Process: extracellular matrix organization and biogenesis; positive regulation of nitric oxide biosynthetic process; apoptosis; cell-matrix adhesion; natural killer cell activation; receptor clustering; activation of NF-kappaB transcription factor; regulation of cell shape; leukocyte adhesion; cellular extravasation; cell-cell signaling; inflammatory response; cell adhesion; regulation of peptidyl-tyrosine phosphorylation; toll-like receptor 4 signaling pathway; aging; integrin-mediated signaling pathway; neutrophil chemotaxis; regulation of immune response; activated T cell proliferation; leukocyte migration during inflammatory response; heterotypic cell-cell adhesion; positive regulation of angiogenesis; toll-like receptor signaling pathway; endothelial cell migration; innate immune response; blood coagulation; leukocyte migration Disease: Leukocyte Adhesion Deficiency, Type I
Research Articles on CD18	**1.** Studies indicate that Radil regulates neutrophil adhesion and motility by linking Rap1 to beta2-integrin activation.
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