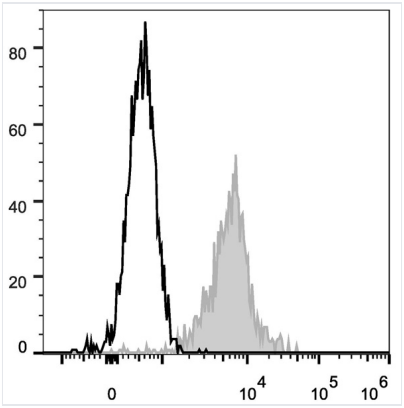
CD11a Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD11a, Monoclonal Antibody
Full Product Name	Anti-Human CD11a Monoclonal Antibody (FITC Conjugated)
Product Gene Name	anti-CD11a antibody
Product Synonym Names	Integrin alpha-L; Itgal; CD11 antigen-like family member A; LFA-1A; Lymphocyte antigen 15; Ly-15; CD11a
Clonality	Monoclonal
Isotype	IgG1
Clone Number	TS1/22.1.1.13
Host	Mouse
Species Reactivity	Human
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD11a (MBS2558367) Isotype Control: IgG1 Clone #MOPC-21 (MBS2557731)
OMIM	153370
3D Structure	ModBase 3D Structure for P20701
Conjugation	FITC
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD11a antibody	Flow Cytometry (FC/FACS)
Related Product Information for anti-CD11a antibody	CD11a is a 170-180 kD type I transmembrane glycoprotein also known as LFA-1alpha chain and integrin alphaL subunit. CD11a non-covalently associates with integrin beta2 (CD18) to form LFA-1. It is expressed on all leukocytes, including B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils. It is absent on non-hematopoietic tissues and platelets. CD11a plays a central role in leukocyte cell-cell interactions and is important in lymphocyte costimulation. CD11a/CD18 binds to ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).
Other Notes	Small volumes of anti-CD11a 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.
Searchable Terms for CD11a purchase	MBS2558367 is an antibody targeting CD11a. Also known as Anti-Human CD11a Monoclonal Antibody (FITC Conjugated). Reactive in Human. Host: Mouse.



Flow Cytometry (FC/FACS) of anti-CD11a antibody
Human peripheral blood lymphocytes are stained with Anti-Human CD11a Monoclonal Antibody(FITC Conjugated)(filled gray histogram). Unstained lymphocytes (empty black histogram) are used as control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD11a. It may not necessarily be applicable to this product.

NCBI GI #	88911345
NCBI GeneID	3683
NCBI Accession #	P20701.3
UniProt Primary Accession #	P20701
UniProt Related Accession #	P20701
NCBI Official Full Name	Integrin alpha-L
NCBI Official Synonym Full Names	integrin subunit alpha L
NCBI Official Symbol	ITGAL
NCBI Official Synonym Symbols	CD11A; LFA-1; LFA1A
UniProt Protein Name	Integrin alpha-L
UniProt Synonym Protein Names	CD11 antigen-like family member A; Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Leukocyte function-associated molecule 1 alpha chain; CD_antigen: CD11a
Protein Family	Integrin
UniProt Gene Name	ITGAL
UniProt Synonym Gene Names	CD11A; LFA-1A
UniProt Entry Name	ITAL_HUMAN
NCBI Protein Information	integrin alpha-L
NCBI Summary for CD11a	ITGAL encodes the integrin alpha L 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 the integrin lymphocyte function-associated antigen-1 (LFA-1), which is expressed on all leukocytes. LFA-1 plays a central role in leukocyte intercellular adhesion through interactions with its ligands, ICAMs 1-3 (intercellular adhesion molecules 1 through 3), and also functions in lymphocyte costimulatory signaling. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for CD11a	ITGAL: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes. Belongs to the integrin alpha chain family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Membrane protein, integral; Cell adhesion; Cell surface Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: cell surface; membrane; plasma membrane; immunological synapse; intercellular junction; integrin complex; external side of plasma membrane Molecular Function: protein binding; protein heterodimerization activity; metal ion binding; protein complex binding; ICAM-3 receptor activity; cell adhesion molecule binding Biological Process: integrin-mediated signaling pathway; extracellular matrix organization and biogenesis; regulation of immune response; cell-matrix adhesion; activated T cell proliferation; positive regulation of calcium-mediated signaling; signal transduction; receptor clustering; heterophilic cell adhesion; leukocyte adhesion; T cell activation via T cell receptor contact with antigen bound to MHC molecule on antigen presenting cell; positive regulation of T cell proliferation; inflammatory response; blood coagulation; cell adhesion; cell motility; leukocyte migration
Research Articles on CD11a	**1.** LFA-1 cross-linking recruits and activates FAK1 and PYK2 to phosphorylate LAT selectively on a single Y-171 site that binds to the GRB2-SKAP1 complex and limits dwell times of T-cells with dendritic cells
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