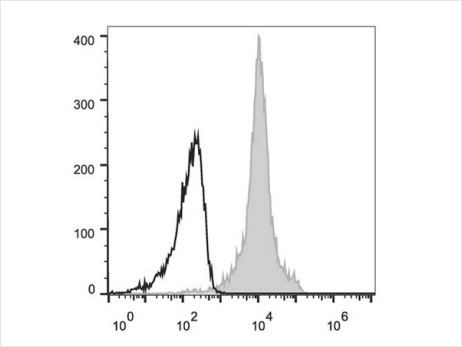
CD11a Antibody – Rat Monoclonal

PRODUCT OVERVIEW

Product Name	CD11a, Monoclonal Antibody
Full Product Name	Anti-Mouse CD11a Monoclonal Antibody (AF647 Conjugated) [FD441.8]
Product Gene Name	anti-CD11a antibody
Product Synonym Gene Name	Mouse CD11a
Product Synonym Names	Integrin alpha-L; Itgal; CD11 antigen-like family member A; LFA-1A; Lymphocyte antigen 15; Ly-15; CD11a
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	FD441.8
Host	Rat
Species Reactivity	Mouse
Form/Format	PBS with 0.05% Proclin300, 1% BSA
Concentration	0.5 mg/mL (lot specific)
Preparation and Storage	Store at 2-8 degree C and protect from prolonged exposure to light. Do not freeze.
Matching Pairs	Antibody: CD11a (MBS2558258) Isotype Control: IgG2b Clone #LTF-2 (MBS2557891)
3D Structure	ModBase 3D Structure for P24063
Conjugation	AF647
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CD11a antibody	Flow Cytometry (FC/FACS)
Application Notes for anti-CD11a antibody	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is <= 2 ug per 10^6 cells in 100 ul volume or 100 ul of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Related Product Information for anti-CD11a antibody	CD11a is a 180 kD glycoprotein, also known as alphaL integrin, LFA-1 alpha, Ly-15, or Ly-21. It is a member of the integrin family, primarily expressed on lymphocytes, monocytes/macrophages, and granulocytes. In association with CD18, the CD11a/CD18 complex forms LFA-1. CD11a plays an important role in intercellular adhesion and costimulation by binding its ligands, 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	MBS2558258 is an antibody targeting CD11a. Also known as Anti-Mouse CD11a Monoclonal Antibody (AF647 Conjugated) [FD441.8]. Reactive in Mouse. Host: Rat.



Flow Cytometry (FC/FACS) of anti-CD11a antibody
C57BL/6 murine splenocytes are stained with Anrti-Mouse CD11a Monoclonal Antibody(AF647 Conjuaged)(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 #	341940846
NCBI GeneID	16408
NCBI Accession #	P24063.2
UniProt Primary Accession #	P24063
UniProt Related Accession #	P24063
NCBI Official Full Name	Integrin alpha-L
NCBI Official Synonym Full Names	integrin alpha L
NCBI Official Symbol	Itgal
NCBI Official Synonym Symbols	Cd11a; LFA-1; Ly-15; Ly-21; (p180); LFA-1A
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; Lymphocyte antigen 15; Ly-15; CD_antigen: CD11a
Protein Family	Integrin
UniProt Gene Name	Itgal
UniProt Synonym Gene Names	Lfa-1; Ly-15; LFA-1A; Ly-15
UniProt Entry Name	ITAL_MOUSE
NCBI Protein Information	integrin alpha-L

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: Membrane protein, integral; Motility/polarity/chemotaxis; Cell surface; Cell adhesion Cellular Component: cell surface; membrane; integral to membrane; immunological synapse; intercellular junction; integrin complex; external side of plasma membrane Molecular Function: protein heterodimerization activity; metal ion binding; protein complex binding; ICAM-3 receptor activity; cell adhesion molecule binding Biological Process: integrin-mediated signaling pathway; cell-matrix adhesion; activated T cell proliferation; positive regulation of calcium-mediated signaling; signal transduction; receptor clustering; heterophilic cell adhesion; leukocyte adhesion; cell-cell adhesion; cell surface receptor linked signal transduction; regulation of cell-cell adhesion; T cell activation via T cell receptor contact with antigen bound to MHC molecule on antigen presenting cell; positive regulation of cell-cell adhesion; positive regulation of T cell proliferation; cell adhesion
Research Articles on CD11a	**1.** An intracellular pool of LFA-1 in naive CD8(+) T cells plays a key role in T cell activation and differentiation.
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