

Mouse anti-Human CD11a Monoclonal Antibody | anti-CD11a antibody

Anti-Hu CD11a PE

CATALOG # AAA129152	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
-------------------------------	----------------------	----------------------------	---

PRODUCT SYNONYMS

CD11a; Monoclonal Antibody; Anti-Hu CD11a PE; LFA-1; LFA1A; ITGAL; integrin subunit alpha L; anti-CD11a antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	MEM-83
Specificity	The antibody MEM-83 reacts with an extracellular epitope of CD11a (alpha subunit of human LFA-1), a 170-180kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.
Purity/Purification	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Form/Format	Stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide
Applicable Applications for anti-CD11a antibody	FCM/FACS (Flow Cytometry)
Conjugation	PE
Immunogen	Human peripheral blood lymphocytes
Preparation and Storage	Store in the dark at 2-8 degree C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

ADDITIONAL INFORMATION

Related Product Information for anti-CD11a antibody	CD11a (LFA-1 alpha) together with CD18 constitute leukocyte Functional Application (FUNC)tion-associated antigen 1 (LFA-1), the alphaLbeta2 integrin. CD11a is implicated in activation of LFA-1 complex. LFA-1 is expressed on the plasma membrane of leukocytes in a low-affinity conformation. Cell stimulation by chemokines or other signals leads to induction the high-affinity conformation, which supports tight binding of LFA-1 to its ligands, the intercellular adhesion molecules ICAM-1, -2, -3. LFA-1 is thus involved in interaction of various immune cells and in their tissue-specific settlement, but participates also in control of cell differentiation and proliferation and of T-cell effector Functional Application (FUNC)tions. Blocking of LFA-1 Functional Application (FUNC)tion by specific antibodies or small molecules has become an important therapeutic approach in treatment of multiple inflammatory diseases. For example, humanized anti-LFA-1 antibody Efalizumab (Raptiva) is being used to interfere with T cell migration to sites of inflammation; binding of cholesterol-lowering drug simvastatin to CD11a allosteric site leads to immunomodulation and increase in lymphocytic cholinergic activity.
---	--

References	*Landis RC, McDowall A, Holness CL, Littler AJ, Simmons DL, Hogg N: Involvement of the "I" domain of LFA-1 in selective binding to ligands ICAM-1 and ICAM-3. J Cell Biol. 1994 Jul;126(2):529-37., URL: <a 1261519"="" href="http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=*&Landis RC, Bennett RI, Hogg N: A novel LFA-1 activation epitope maps to the I domain. J Cell Biol. 1993 Mar;120(6):1519-27., URL: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=*&Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989)., URL: http://www.ncbi.nlm.nih.gov/pubmed/1261519 *Sarantos MR, Raychaudhuri S, Lum AF, Staunton DE, Simon SI: Leukocyte Functional Application (FUNC)tion-associated antigen 1-mediated adhesion stability is dynamically regulated through affinity and valency during bond formation with intercellular adhesion molecule-1. J Biol Chem. 2005 Aug 5;280(31):28290-8., URL: https://www.ncbi.nlm.nih.gov/pubmed/15812222 *Giblin PA, Lemieux RM: LFA-1 as a key regulator of immune Functional Application (FUNC)tion: approaches toward the development of LFA-1-based therapeutics. Curr Pharm Des. 2006;12(22):2771-95., URL: https://www.ncbi.nlm.nih.gov/pubmed/16812222 *Kellersch B, Kolanus W: Membrane-proximal signaling events in beta-2 integrin activation. Results Probl Cell Differ. 2006;43:245-57., URL: https://www.ncbi.nlm.nih.gov/pubmed/16812222 *Fujii T, Takada-Takatori Y, Kawashima K: Roles played by lymphocyte Functional Application (FUNC)tion-associated antigen-1 in the regulation of lymphocytic cholinergic activity. Life Sci. 2007 May 30;80(24-25):2320-4., URL: https://www.ncbi.nlm.nih.gov/pubmed/17312222
-------------------	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	88911345
NCBI GeneID	3683
UniProt Accession #	P20701; O43746; Q45H73; Q96HB1; Q9UBC8
NCBI Official Full Name	Integrin alpha-L
NCBI Official Synonym Full Names	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)
NCBI Official Symbol	ITGAL
NCBI Official Synonym Symbols	CD11A; LFA-1; LFA1A
NCBI Protein Information	integrin alpha-L; LFA-1A; LFA-1 alpha; integrin gene promoter; CD11 antigen-like family member A; lymphocyte function-associated antigen 1; leukocyte adhesion glycoprotein LFA-1 alpha chain; leukocyte function-associated molecule 1 alpha chain; antigen CD
UniProt Protein Name	Integrin alpha-L
UniProt Gene Name	ITGAL
UniProt Synonym Gene Names	CD11A; LFA-1A
UniProt Entry Name	ITAL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/monoclonal/cd11a-antibody-clone-mem-83-flow-cytometry-elisa/129152>