

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

Anti-Hu CD11a PE

CATALOG # AAA129152	HOST Mouse	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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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.
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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 (func)tion-associated="" (func)tion:="" 2006;12(22):2771-95.,="" 2006;43:245-57.,="" 2007="" 30;80(24-25):2320-4.,="" a="" activation.="" activity.="" antigen-1="" application="" approaches="" as="" b,="" beta-2="" by="" cell="" cholinergic="" curr="" des.="" development="" differ.="" events="" functional="" 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: <a href=" http:="" https:="" immune="" in="" integrin="" k:="" kawashima="" key="" kolanus="" lemieux="" lfa-1="" lfa-1-based="" life="" lymphocyte="" lymphocytic="" may="" membrane-proximal="" of="" pa,="" pharm="" played="" probl="" pubmeddb="pubmed&Cmd=</a" regulation="" regulator="" results="" rm:="" roles="" sci.="" signaling="" t,="" takada-takatori="" the="" therapeutics.="" toward="" url:="" w:="" www.ncbi.nlm.nih.gov="" y,="">
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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.

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