

anti-human CD11a

The antibody MEM-25 reacts with CD11a (α -subunit of human LFA-1), a 170-180 kDa type I trans-membrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.

CD11a (LFA-1a) together with CD18 constitute leukocyte function-associated antigen 1 (LFA-1), the α Lb2 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 functions. Blocking of LFA-1 function 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

Clone:	MEM-25
Isotype:	Mouse IgG1
Physical state:	Purified from ascites by protein-G affinity chromatography
Purity:	> 95% (by SDS-PAGE)
Buffer:	PBS with 15 mM sodium azide (pH 7.4)
Storage Instruction:	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Application:	Flow Cytometry, Immunoprecipitation, Functional Application
Reference:	Leucocyte Typing IV. Knapp W et al. (Eds.), Oxford University Press (1989). Bazil V. et al., Folia Biol. (Praha) 36, 41 (1990)
Quantity:	0.1 mg
Order N°:	H12138

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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