

30-1003: Azide free, Anti-CD11a / LFA-1 alpha chain Monoclonal Antibody (Clone:MEM-25)

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| Clonality : | Monoclonal |
| Clone Name : | MEM-25 |
| Application : | FACS |
| Reactivity : | Human |
| Gene : | ITGAL |
| Gene ID : | 3683 |
| Uniprot ID : | P20701 |
| Alternative Name : | ITGAL,CD11A |
| Isotype : | Mouse IgG1 |
| Immunogen Information : | Leukocytes from a patient suffering from a LGL-type leukaemia. |

Description

CD11a (LFA-1 alpha) together with CD18 constitute leukocyte function-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 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.

Product Info

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| Amount : | 0.1 mg |
| Purification : | Purified by protein-A affinity chromatography |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

Flow Cytometry *Recommended dilution:* 2 µg/ml

Immunoprecipitation excellent antibody for immunoaffinity purification of LFA-1 complex **Functional Application** The antibody MEM-25 partially blocks binding of LFA-1 complex to ICAM-1.