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# 30-1685: APC Conjugated, 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 |
| **Conjugate :** | APC |
| **Gene :** | ITGAL |
| **Gene ID :** | 3683 |
| **Uniprot ID :** | P20701 |
| **Alternative Name :** | ITGAL,CD11A |
| **Isotype :** | Mouse IgG1 |
| **Immunogen Information :** | Leukocytes from a pacient 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 :** | 100 tests |
| **Storage condition :** | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. |

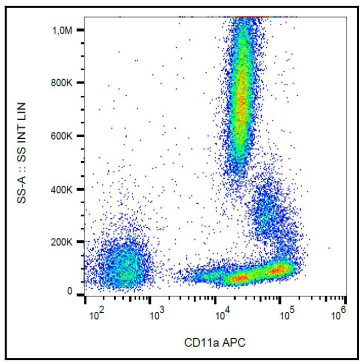



Figure 1: Surface staining of human peripheral blood cells with anti-human CD11a (MEM-25) APC.

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***