

## Product Datasheet

### Anti-Hu CD11a PE GRP13274

#### 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 of 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.

#### Reactivity

Human

#### Tested Applications

FC

#### Immunogen

Human peripheral blood lymphocytes

#### Form/Appearance

PE

#### Preservatives

Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide

#### Storage

Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

#### Note

For research use only.

#### Isotype

Mouse IgG1

#### Clone ID

MEM-83

#### Uniprot ID

P20701

#### NCBI

3683