TECHNICAL DATA SHEET

CyFlow™ CD11a Biotin
Anti-Hu; Clone MEM-25

REF **CB809014**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD11a
Alternative Names	LFA-1
Clone	MEM-25
Clonality	monoclonal
Format	Biotin
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Leukocytes of a patient suffering from LGL-type Leukemia

Specificity

The mouse monoclonal antibody MEM-25 recognizes CD11a antigen, a 170-180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.

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Application

The reagent is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working usage is 8.3 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.
Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

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

Background Information

CD11a (LFA-1 α) together with CD18 constitute leukocyte function-associated antigen 1 (LFA-1), the αLβ2 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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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