

TECHNICAL DATA SHEET

CyFlow™ CD11a Purified Anti-Ms; Clone M17/4

REF CA154449

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD11a
Alternative Names	LFA-1
Clone	M17/4
Clonality	monoclonal
Format	Purified
Host / Isotype	Rat / IgG2a
Species Reactivity	Mouse
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	C57BL/6 mouse splenic secondary cytotoxic T lymphocytes

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Specificity

The rat monoclonal antibody M17/4 recognizes mouse CD11a (α -subunit of murine LFA-1) antigen, a 180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry (frozen sections)
- Functional assays

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 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 $\alpha\beta$ 2 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.

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

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