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30-2832: Anti-Ms CD11a Purified Low Endotoxin(Discontinued)

Clonality :	Monoclonal
Clone Name :	M17/4
Application :	FACS
Reactivity :	Mouse
Gene :	Itgal
Gene ID :	16408
Uniprot ID :	E9Q5M7
Alternative Name :	integrin subunit alpha L LFA-1, LFA1A, ITGAL
Immunogen Information :	C57BL/6 mouse splenic secondary cytotoxic T lymphocytes

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.
Specificity :The rat monoclonal antibody M17/4 reacts with an extracellular epitope of CD11a (alpha-subunit of murine LFA-1), a 180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-G affinity chromatography.
Content :	Concentration: 1 mg/ml Storage Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Functional application: Blocking.
Flow cytometry: Recommended dilution: 1 Âµg/ml.
Immunohistochemistry (frozen sections): Positive tissue: murine spleen or thymus, acetone fixation.