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## Purified Mouse Anti-Human CD11a Monoclonal Antibody (Azide Free)

**CLX15NA**

<b>Size:</b>	0.1 mg
<b>Clone:</b>	MEM-25
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody MEM-25 reacts with CD11a (alpha subunit of human LFA-1), a 170-180 kDa type I transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils. <b>HLDA IV; WS Code NL 209</b>
<b>Immunogen:</b>	Leukocytes from a patient suffering from a LGL-type leukaemia.
<b>Other Names:</b>	LFA-1, LFA1A, ITGAL
<b>Species Reactivity:</b>	Human
<b>Application:</b>	<b>Flow Cytometry</b> Recommended dilution: 2 µg/ml <b>Immunoprecipitation</b> Excellent antibody for immunoaffinity purification of LFA-1 complex <b>Functional Application</b> The antibody MEM-25 partially blocks binding of LFA-1 complex to ICAM-1.
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from ascites by protein-A affinity chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized.
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze.

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**Background: CD11a**

CD11a (LFA-1 alpha) 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. 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.

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\*And many other.

**Laboratory Reagent For Research Use Only**

MW 10/21/20