



Mouse Anti-Human CD11a Monoclonal Antibody, clone MEM-25 (CABT-Z601M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The antibody blocks binding of LFA-1 complex to ICAM-1.
Specificity	The antibody MEM-25 reacts with CD11a (α-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.
Immunogen	Human CD11a
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	MEM-25
Purification	Protein A purified
Conjugate	Unconjugated
Applications	BL
Format	Liquid
Concentration	Lot specific
Size	100 µg
Buffer	PBS (sterile), pH 7.2.
Preservative	None

Storage	Store at 4°C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	CD11a (LFA-1a) 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 antiLFA-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.
Keywords	ITGAL;integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1;alpha polypeptide);CD11A;integrin alpha-L;LFA 1

GENE INFORMATION

Gene Name	ITGAL
Entrez Gene ID	3683
UniProt ID	P20701