

Product datasheet

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ARG65494 anti-CD11a / LFA1 alpha antibody [MEM-25] (low endotoxin)

Package: 100 μg Store at: -20°C

Summary

Product Description Azide free and low endotoxin Mouse Monoclonal antibody [MEM-25] recognizes CD11a / LFA1 alpha

Tested Reactivity Hu

Tested Application FACS, FuncSt, IP

Specificity The antibody MEM25 reacts with CD11a (alpha subunit of human LFA1), a 170180 kDa type I

transmembrane glycoprotein expressed on B and T lymphocytes, monocytes, macrophages,

neutrophils, basophils and eosinophils.

HLDA IV; WS Code NL 209

Host Mouse

Clonality Monoclonal

Clone MEM-25

Isotype IgG1

Target Name CD11a / LFA1 alpha

Immunogen Leukocytes from a pacient suffering from a LGL-type leukaemia.

Conjugation Un-conjugated

Alternate Names Leukocyte adhesion glycoprotein LFA-1 alpha chain; LFA-1A; Integrin alpha-L; CD11A; Leukocyte

function-associated molecule 1 alpha chain; LFA-1; CD11 antigen-like family member A; CD antigen

CD11a

1 mg/ml

Application Instructions

Application table	Application	Dilution
	FACS	2 μg/ml
	FuncSt	Assay-dependent
	IP	Assay-dependent
Application Note	IP: Excellent antibody for immunoaffinity purification of LFA-1 complex. Functional studies: The clone MEM-25 partially blocks binding of LFA-1 complex to ICAM-1. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Concentration

FormLiquidPurificationPurification with Protein A.Purification Note0.2 μm filter sterilized. Endotoxin level is 95% (by SDS-PAGE)BufferPBS (pH 7.4)

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Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GeneID: 3683 Human

Swiss-port # P20701 Human

Gene Symbol ITGAL

Gene Full Name integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)

Background 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.

Function Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of

immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing,

and antibody dependent killing by granulocytes and monocytes. [UniProt]

Research Area Developmental Biology antibody; Immune System antibody; Signaling Transduction antibody

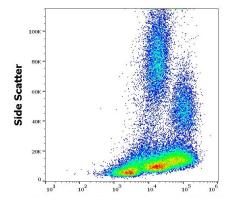
Calculated Mw 129 kDa

PTM In resting T-cells, up to 40% of surface ITGAL is constitutively phosphorylated. Phosphorylation causes

conformational changes needed for ligand binding and is necessary for activation by some physiological

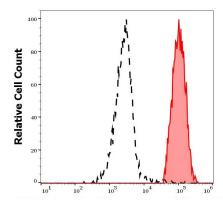
agents.

Images



ARG65494 anti-CD11a / LFA1 alpha antibody [MEM-25] (low endotoxin) FACS image

Flow Cytometry: Human peripheral whole blood stained with ARG65494 anti-CD11a / LFA1 alpha antibody [MEM-25] (low endotoxin) at 1 μ g/ml dilution, followed by APC-conjugated Goat anti-Mouse antibody.



ARG65494 anti-CD11a / LFA1 alpha antibody [MEM-25] (low endotoxin) FACS image $\,$

Flow Cytometry: Separation of human monocytes (red-filled) from blood debris (black-dashed). Human peripheral whole blood stained with ARG65494 anti-CD11a / LFA1 alpha antibody [MEM-25] (low endotoxin) at 1 $\mu g/ml$ dilution, followed by APC-conjugated Goat anti-Mouse antibody.