

Product datasheet

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ARG62750 anti-CD18 / LFA1 beta antibody [MEM-48] (Biotin)

Package: 100 μg Store at: 4°C

Summary

Product Description Biotin-conjugated Mouse Monoclonal antibody [MEM-48] recognizes CD18 / LFA1 beta

Tested Reactivity Hu

Species Does Not React With Dog

Tested Application FACS

Specificity The clone MEM-48 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the

CD18 antigen (integrin beta2 subunit; beta2 integrin). CD18 is a 90-95 kDa type I transmembrane

protein expressed on all leukocytes.

Host Mouse

Clonality Monoclonal
Clone MEM-48

Isotype IgG1

Target Name CD18 / LFA1 beta

Immunogen Leukocytes of a patient suffering from a LGL-type leukemia.

Conjugation Biotin

Alternate Names MF17; LAD; CD antigen CD18; MFI7; MAC-1; Cell surface adhesion glycoproteins LFA-1/CR3/p150,95

subunit beta; LCAMB; Integrin beta-2; Complement receptor C3 subunit beta; LFA-1; CD18

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 μg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Note The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free

of unconjugated biotin.

Buffer TBS (pH 8.0) and 15 mM Sodium azide

Preservative 15 mM Sodium azide

Concentration 1 mg/ml

Storage instruction Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be

gently mixed before use.

Bioinformation

Database links <u>GeneID: 3689 Human</u>

Swiss-port # P05107 Human

Gene Symbol ITGB2

Gene Full Name integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)

Background CD18, integrin beta2 subunit, forms heterodimers with four types of CD11 molecule to constitute

leukocyte (beta2) integrins: alphaLbeta2 (CD11a/CD18, LFA-1), alphaMbeta2 (CD11b/CD18, Mac-1, CR3), alphaXbeta2 (CD11c/CD18) and alphaDbeta2 (CD11d/CD18). In most cases, the response mediated by the integrin is a composite of the functions of its individual subunits. These integrins are essential for proper leukocyte migration, mediating intercellular contacts. Absence of CD18 leads to leukocyte adhesion deficiency-1; severe reduction of CD18 expression leads to the development of a psoriasiform skin disease. CD18 is also a target of Mannheimia (Pasteurella) haemolytica leukotoxin and

is sufficient to mediate leukotoxin-mediated cytolysis.

Function Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2

and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation. [UniProt]

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

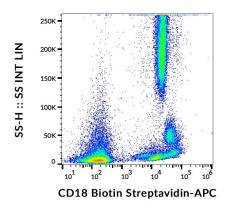
Calculated Mw 85 kDa

PTM Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters

(PubMed:11700305). Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3

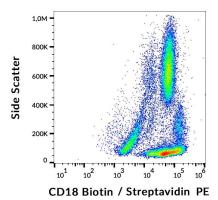
proteins (PubMed:11700305, PubMed:16301335).

Images



ARG62750 anti-CD18 / LFA1 beta antibody [MEM-48] (Biotin) FACS image

Flow Cytometry: Human peripheral blood stained with ARG62750 anti-CD18 / LFA1 beta antibody [MEM-48] (Biotin), followed by Streptavidin (APC).



$\ensuremath{\mathsf{ARG62750}}$ anti-CD18 / LFA1 beta antibody [MEM-48] (Biotin) FACS image

Flow Cytometry: Human peripheral blood stained with ARG62750 anti-CD18 / LFA1 beta antibody [MEM-48] (Biotin), followed by Streptavidin (PE).