

## ARG62753 anti-CD18 / LFA1 beta antibody [MEM-48] (FITC)

Package: 100 tests Store at: 4°C

## Summary

Product Description	FITC-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	lgG1
Target Name	CD18 / LFA1 beta
Immunogen	Leukocytes of a patient suffering from a LGL-type leukemia.
Conjugation	FITC
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	20 μl / 10^6 cells
Application Note	* The dilutions indicate recomn should be determined by the sc	nended starting dilutions and the optimal dilutions or concentrations ientist.

### Properties

Liquid
The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
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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.

Database links	GeneID: 3689 Human
	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 is a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for the point of the point of the point of the third complement.

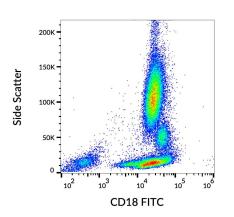
proteins (PubMed:11700305, PubMed:16301335).

#### Bioinformation

	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

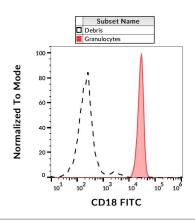
(PubMed:11700305). Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3

#### Images



#### ARG62753 anti-CD18 / LFA1 beta antibody [MEM-48] (FITC) FACS image

Flow Cytometry: Human peripheral blood stained with ARG62753 anti-CD18 / LFA1 beta antibody [MEM-48] (FITC).



# $\mathsf{ARG62753}$ anti-CD18 / LFA1 beta antibody [MEM-48] (FITC) FACS image

Flow Cytometry: Separation of Human CD18 positive Granulocytes (red) from Human CD18 negative Debris (black-dashed). Human peripheral blood stained with ARG62753 anti-CD18 / LFA1 beta antibody [MEM-48] (FITC).