

anti-human CD18 PE-conjugated

The antibody MEM-48 recognizes an epitope involving residues 534-546 in cysteine-rich repeat 3 of the CD18 antigen (integrin $\beta 2$ subunit; $\beta 2$ integrin). CD18 is a 90-95 kDa type I transmembrane protein expressed on all leukocytes.

The antibody induces high-affinity conformation of LFA-1 complex.

CD18, integrin $\beta 2$ subunit, forms heterodimers with four types of CD11 molecule to constitute leukocyte ($\beta 2$) integrins: $\alpha L\beta 2$ (CD11a/CD18, LFA-1), $\alpha M\beta 2$ (CD11b/CD18, Mac-1, CR3), $\alpha X\beta 2$ (CD11c/CD18) and $\alpha D\beta 2$ (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.

Clone:	MEM-48
Isotype:	Mouse IgG1
Physical state:	Liquid for direct use
Form:	purified antibody conjugated with R-Phycoerythrin (R-PE)
Buffer:	PBS containing 1% BSA and 0.1% sodium azide (pH 7.4)
Storage:	Store at 4 °C. Do not freeze. Avoid prolonged exposure to light.
Application:	Flow Cytometry
Reference:	Bazil V. et al., Folia Biol. (Praha) 36, 41 (1990). Drbal K. et al., Biochem. Biophys. Res. Commun. 275, 295 (2000)
Quantity:	1.0 ml
Order N°:	H12150P

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32).

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