

anti-human CD18

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:	Purified from ascites by protein-A affinity chromatography
Purity:	> 95% (by SDS-PAGE)
Buffer:	PBS with 15 mM sodium azide (pH 7.4)
Storage Instruction:	Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
Application:	Flow Cytometry, Immunoprecipitation, Western Blotting, Immunohistochemistry (frozen sections)
Reference:	Bazil V. et al., Folia Biol. (Praha) 36, 41 (1990). Drbal K. et al., Biochem. Biophys. Res. Commun. 275, 295 (2000)
Quantity:	0.1 mg
Order N°:	H12150

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).

This material is offered for **research only**. Not for use in human. For in vitro use only. EuroBioSciences will not be held responsible for patent infringement or other violations that may occur with the use of our products.