

anti-human CD18 no azide

Monoclonal Antibody MEM-148 to CD18 (Human)

Cat-No: **21279180**

100 µg in 100 µl

Clone: MEM-148

Specificity: The antibody MEM-148 recognizes the epitope exposed on free human CD18 chains unassociated with CD11 as well as on high-affinity state of LFA-1. CD18 (integrin beta2 subunit; beta2 integrin) is a 90-95 kDa type I transmembrane protein expressed on all leukocytes.

HLDA VI; WS Code AS A052.

Negative Species: Porcine

Isotype subclass: Mouse IgG1

Form: Purified from hybridoma culture supernatant by protein-A affinity chromatography.

Purity: > 95% (by SDS-PAGE)

Physical state: Liquid

Buffer/Additives/Preservative: sterile PBS, pH 7.2

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Aliquot and store at -20°C. Avoid freeze/thaw cycles.
Should be handled under aseptic conditions.

Application: Functional Application: The antibody induces homotypic cell aggregation and high-affinity LFA-1 conformation in resting leukocytes.

References:

*Drbal K, Angelisova P, Hilgert I, Cerny J, Novak P, Horejsi V. Blood. 2001 Sep 1;98(5):1561-6.

*Drbal K, Angelisova P, Cerny J, Hilgert I, Horejsi V.: Immunobiology. 2001 May;203(4):687-98. Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

Background: **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.

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