



11-216-C025

Monoclonal Antibody to CD18 Purified Antibody (0.025 mg)

Clone:	MEM-48
Isotype:	Mouse IgG1
Specificity:	The antibody 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.
Regulatory Status:	RUO
Immunogen:	Leukocytes of a patient suffering from a LGL-type leukemia.
Species Reactivity:	Human
Negative Species:	Canine (Dog)
Application:	Flow Cytometry Recommended dilution: 2 µg/ml Immunoprecipitation Western Blotting Recommended dilution: 2 µg/ml Positive control: Kg-1a human leukemia cell lysate Sample preparation: buffer with laurylmaltoside, 2 x non-reducing SDS Application note: Non-reducing conditions. SDS-PAGE (6% separating gel). Immunohistochemistry (paraffin sections) Recommended dilution: 10 µg/ml Positive tissue: spleen, microglia Immunohistochemistry (frozen sections) Functional Application The antibody MEM-48 induces high-affinity conformation of LFA-1 complex.
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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