



11-340-C025

## Monoclonal Antibody to CD18 Purified Antibody (0.025 mg)

<b>Clone:</b>	MEM-148
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody MEM-148 recognizes an epitope on CD18 which is essentially inaccessible in intact integrin molecules on resting leukocytes, but is exposed on high-affinity state of LFA-1 or on unassociated CD18. 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
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Peripheral blood mononuclear cells
<b>Species Reactivity:</b>	Human
<b>Negative Species:</b>	Porcine
<b>Application:</b>	Flow Cytometry Recommended dilution: 8 µg/ml The antibody MEM-148 is excellent marker of activated myeloid cells. Immunoprecipitation Western Blotting Application note: Non-reducing conditions. Functional Application The antibody MEM-148 induces homotypic cell aggregation and high-affinity LFA-1 conformation in resting leukocytes.
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified by protein-A affinity chromatography
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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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