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30-1121: Anti-CD18 / Integrin beta2 subunit Monoclonal Antibody (Clone:MEM-48)

Clonality :	Monoclonal
Clone Name :	MEM-48
Application :	FACS
Reactivity :	Human
Gene :	ITGB2
Gene ID :	3689
Uniprot ID :	P05107
Format :	Purified
Alternative Name :	ITGB2,CD18,MFI7
Isotype :	Mouse IgG1
Immunogen Information :	Leukocytes of a patient suffering from a LGL-type leukemia.

Description

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.

Product Info

Amount :	0.1 mg
Purification :	Purified by sequential steps of physicochemical fractionation (caprylic acid precipitation and ammonium sulfate precipitation).
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Western Blotting *Recommended dilution:* 2 Âµg/ml
Positive control: Kg-1a human leukemia cell lysate
Immunohistochemistry *Recommended dilution:* 10 Âµg/ml
Positive tissue: spleen, microglia

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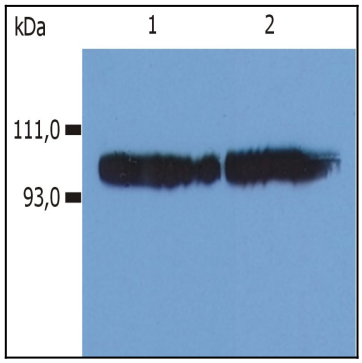

Figure 1:Western Blotting analysis (non-reducing conditions) of whole cell lysate using anti-human CD18 (MEM-48). Lane 1: KG-1a human acute myeloid leukemia cell line Lane 2: HPB-ALL human peripheral blood T cell leukemia cell line

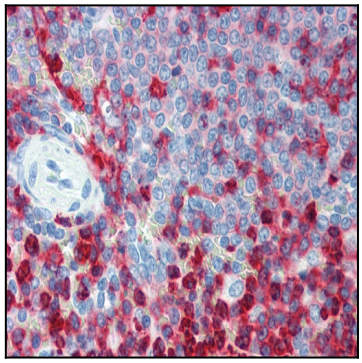

Figure 2: Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD18 (MEM-48).

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