

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MEM-48
<b>Application :</b>	FACS, IP, WB, IHC, IHC-Fr, Functional Assay
<b>Reactivity :</b>	Human
<b>Gene :</b>	ITGB2
<b>Gene ID :</b>	3689
<b>Uniprot ID :</b>	P05107
<b>Format :</b>	Purified
<b>Alternative Name :</b>	ITGB2,CD18,MFI7
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	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

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

### Application Note

**Western Blotting** *Recommended dilution:* 2  $\mu$ g/ml

*Positive control:* Kg-1a human leukemia cell lysate

**Immunohistochemistry** *Recommended dilution:* 10  $\mu$ g/ml

*Positive tissue:* spleen, microglia

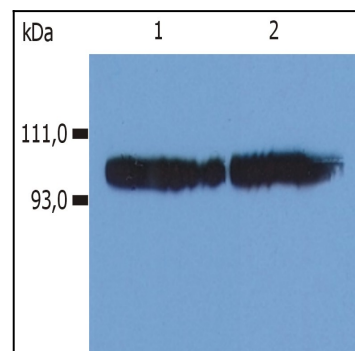


Figure 1: Western Blotting analysis (non-reducing conditions) of whole cell lysate using anti-human CD18 (MEM-48). Lane 1: KG-1a human acute myeloid leukemia cell line  
Lane 2: HPB-ALL human peripheral blood T cell leukemia cell line

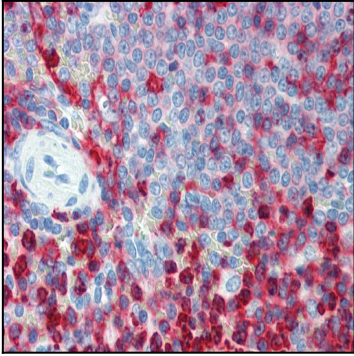


Figure 2: Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD18 (MEM-48).