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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

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| **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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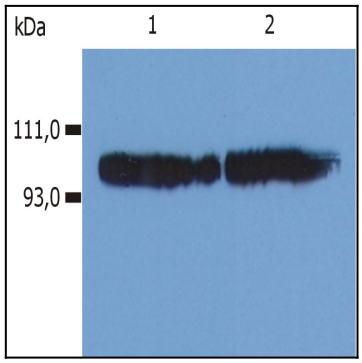


Figure 1:Western Blotting analysis (non-reducing conditions) of whole cell lysate using anti-human CD18 (MEM-48). Lane 1: KG-1a human acute myeloid leukemia cell line Lane 2: HPB-ALL human peripheral blood T cell leukemia cell line

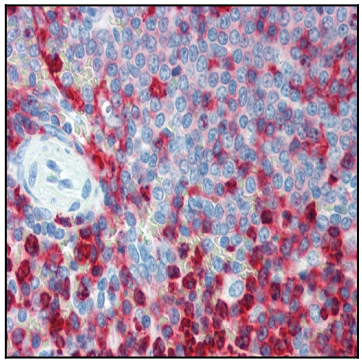

Figure 2: Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD18 (MEM-48).

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