

## 30-1606: Anti-CD18 / Integrin beta2 subunit Monoclonal Antibody (Clone:MEM-148)-Low Endotoxin

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MEM-148
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	ITGB2
<b>Gene ID :</b>	3689
<b>Uniprot ID :</b>	P05107
<b>Format :</b>	Low Endotoxin
<b>Alternative Name :</b>	ITGB2,CD18,MFI7
<b>Isotype :</b>	Mouse IgG1
<b>Immunogen Information :</b>	Peripheral blood mononuclear cells

### 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

Functional application: The antibody MEM-148 induces homotypic cell aggregation and high-affinity LFA-1 conformation in resting leukocytes. <br>Flow cytometry: Recommended dilution: 1-5 µg/ml. The antibody MEM-148 is an excellent marker of activated myeloid cells. <br>Western blotting: Non-reducing conditions.

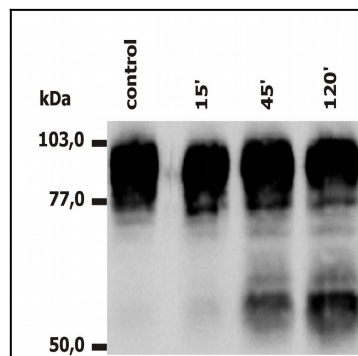


Figure 1: Western Blotting analysis of PMA-activated neutrophils, using anti-human CD18 (MEM-148). The antibody MEM-148 recognizes the lower 65 to 70 kDa zone (activation marker) as well as the upper 78 to 96 kDa zone (CD18).

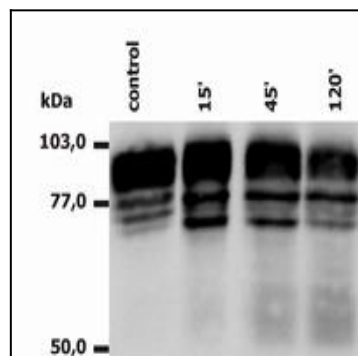


Figure 2: Western Blotting analysis of PMA-activated monocytes, using anti-human CD18 (MEM-148). The antibody MEM-148 recognizes the lower 65 to 70 kDa zone (activation marker) as well as the upper 78 to 96 kDa zone (CD18).