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## 30-1218: Anti-CD18 / Integrin beta2 subunit Monoclonal Antibody (Clone:MEM-148)

Clonality: Monoclonal Clone Name: MEM-148 Application: FACS Reactivity: Human Gene: ITGB2 Gene ID: 3689 **Uniprot ID:** P05107 Purified Format:

Alternative Name: ITGB2,CD18,MFI7
Isotype: Mouse IgG1

Immunogen Information: 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**

Amount: 0.1 mg

**Purification :** Purified by protein-A affinity chromatography

**Storage condition :** Store at 2-8°C. Do not freeze.

## **Application Note**

Flow cytometry: Recommended dilution: 1-5 µg/ml. The antibody MEM-148 is an excellent marker of activated myeloid cells. <br/>br>Western blotting: Non-reducing conditions.

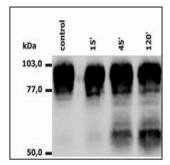


Figure 1: Western Blotting analysis of PMA-activated neutrophils, using anti-human CD18 (MEM-148). The antibody MEM-148 recognizes the lower 65 to 70 kDa zone (activation marker) as well as the upper 78 to 96 kDa zone (CD18).



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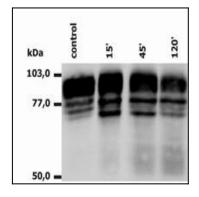


Figure 2: Western Blotting analysis of PMA-activated monocytes, using anti-human CD18 (MEM-148). The antibody MEM-148 recognizes the lower 65 to 70 kDa zone (activation marker) as well as the upper 78 to 96 kDa zone (CD18).