

## anti-human CD11b no azide

monoclonal antibody MEM-174 to human CD11b

Cat-No: **21279110**

100 µg in 100 µl

**Clone:** MEM-174

**Specificity:** The antibody MEM-174 recognizes CD11b antigen (Mac-1), a 165 kDa type I transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. The CD11b mediates neutrophil and monocyte interactions with stimulated endothelium.  
HLDA VI; WS Code BP 310 / HLDA VI; WS Code M 18

**Isotype subclass:** Mouse IgG2a

**Form:** Purified by protein-A affinity chromatography.

**Purity:** > 95% (by SDS-PAGE)

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS (sterile), pH 7.2

**Expiration date:** The reagent is stable until the expiry date stated on the vial label

**Storage conditions:** Aliquot and store at -20°C. Avoid freeze/thaw cycles. Should be handled under aseptic conditions.

**Application:** Functional Application: The antibody blocks binding of LFA-1 complex to ICAM-1.

**References:** Leukocyte Typing VI. Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997).

**Background:** **CD11b** (integrin  $\alpha$ M subunit) is a 165 kDa type I transmembrane glycoprotein that non-covalently associates with integrin  $\beta$ 2 subunit (CD18); expression of the CD11b chain on the cell surface requires the presence of the CD18 antigen. CD11b/CD18 integrin (Mac-1, CR3) is highly expressed on NK cells, neutrophils, monocytes and less on macrophages. CD11b/CD18 integrin is implicated in various adhesive interactions of monocytes, macrophages and granulocytes, facilitating their diapedesis, as well as it mediates the uptake of complement coated particles, serving as a receptor for the iC3b fragment of the third complement component.

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