

anti-human CD11b PE-conjugated

PE -conjugated monoclonal antibody MEM-174 to human CD11b

Cat-No: **21279114**

500 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

Immunogen: Human granulocytes

Isotype subclass: Mouse IgG2a

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing BSA and 15 mM sodium azide (pH 7.4).

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

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light.

Application: Flow Cytometry

Background: **CD11b** (integrin α M subunit) is a 165 kDa type I transmembrane glycoprotein that non-covalently associates with integrin β 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.

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

Warning:

Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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