

TECHNICAL DATA SHEET

CyFlow™ CD11b PE Anti-Hu/Ms; Clone M1/70

REF AL816358

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD11b
Alternative Names	Mac-1
Clone	M1/70
Clonality	monoclonal
Format	PE
Host / Isotype	Rat / IgG2b
Species Reactivity	Human Mouse, Non-Human Primates Rabbit
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [0.5 mg/ml]
Immunogen	B10 mouse spleen cells enriched for T cells

Specificity

The rat monoclonal antibody M1/70 recognizes CD11b antigen, a type I transmembrane protein mainly expressed on monocytes/macrophages, granulocytes and NK-cells, which associates with CD18 to form Mac-1 integrin that plays important role in cell-cell interactions.

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Application

The reagent is designed for Flow Cytometry analysis. Suggested working usage is 0.5 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD11b (integrin αM subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with CD18 (integrin β2 subunit); 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

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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