



1P-172-T025

Monoclonal Antibody to CD11b activation epitope Phycoerythrin (PE) conjugated (25 tests)

Clone:	CBRM1/5
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody CBRM1/5 recognizes an activation-dependent epitope on CD11b (Mac-1alpha), a 165-170 kDa type 1 transmembrane protein mainly expressed on monocytes, granulocytes and NK-cells. The antibody recognizes a subset of CD11b molecules on neutrophils and monocytes activated with chemoattractants or phorbol esters and does not recognize CD11b on non-activated cells.
Regulatory Status:	RUO
Immunogen:	Information not available
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD11b (integrin alphaM subunit) is a 165-170 kDa type I transmembrane glycoprotein that non-covalently associates with integrin beta2 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:	*Diamond MS, Springer TA: A subpopulation of Mac-1 (CD11b/CD18) molecules mediates neutrophil adhesion to ICAM-1 and fibrinogen. J Cell Biol. 1993 Jan;120(2):545-56. *Fagerholm SC, Varis M, Stefanidakis M, Hilden TJ, Gahmberg CG: alpha-Chain phosphorylation of the human leukocyte CD11b/CD18 (Mac-1) integrin is pivotal for integrin activation to bind ICAMs and leukocyte extravasation. Blood. 2006 Nov 15;108(10):3379-86.

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