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30-1086-FITC: FITC-Conjugated Anti-CD11b activation epitope Monoclonal Antibody (Clone:CBRM1/5)

Clonality :	Monoclonal
Clone Name :	CBRM1/5
Application :	FACS
Reactivity :	Human
Conjugate :	FITC
Gene :	ITGAM
Gene ID :	3684
Uniprot ID :	P11215
Alternative Name :	integrin subunit alpha M, Mac-1, Integrin alpha M, ITGAM, CR3A, MO1A, MAC1A
Isotype :	Mouse IgG1 kappa
Immunogen Information :	Information not available

Description

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.

Specificity: The mouse monoclonal antibody CBRM1/5 recognizes an activation-dependent epitope on extracellular part of 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 it does not recognize CD11b on non-activated cells.

Product Info

Amount :	100 tests (T100)
Purification :	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation: Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 4 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.4 ml) is sufficient for 100 tests.

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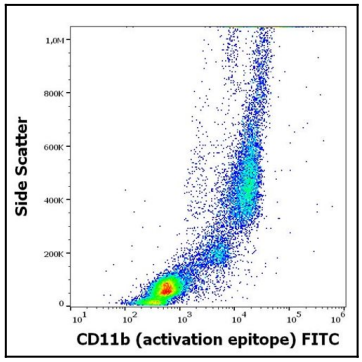


Figure 1: Flow cytometry surface staining pattern of PMA stimulated human peripheral whole blood stained using anti-human CD11b activation epitope (CBRM1/5) FITC antibody (concentration in sample 1.67 µg/ml).

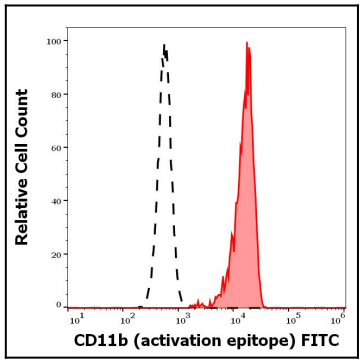


Figure 2: Separation of human PMA stimulated neutrophils (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human PMA stimulated peripheral whole blood stained using anti-human CD11b activation epitope (CBRM1/5) FITC antibody (concentration in sample 1.67 µg/ml).

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