

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

Clonality :	Monoclonal
Clone Name :	CBRM1/5
Application :	IP,FACS
Reactivity :	Human
Conjugate :	Biotin
Gene :	ITGAM
Gene ID :	3684
Uniprot ID :	P11215
Alternative Name :	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 :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	Concentration: 1 mg/ml Formulation: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-4 µg/ml

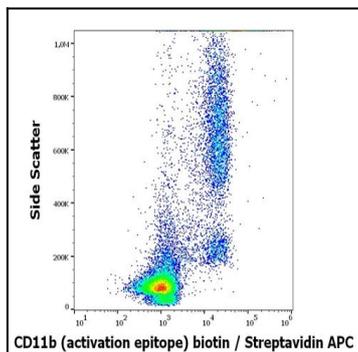


Figure 1: Flow cytometry surface staining pattern of PMA stimulated human peripheral whole blood stained using anti-human CD11b (activation epitope) (CBRM1/5) Biotin antibody (concentration in sample 1.67 µg/ml, Streptavidin APC).

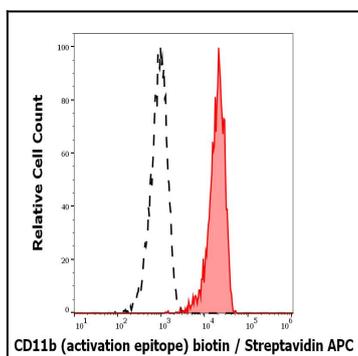


Figure 2: Separation of human PMA stimulated neutrophils (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human PMA stimulated peripheral whole blood stained using anti-human CD11b (activation epitope) (CBRM1/5) Biotin antibody (concentration in sample 1.67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