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Datasheet for 200-308-N20

CD11b Phycoerythrin Antibody

Overview

Description:	Anti-CD11b (MOUSE) Phycoerythrin Conjugated Monoclonal Antibody - 200-308-N20
Item No.:	200-308-N20
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	The ICRF44 antibody reacts with human CD11b, also known as integrin alpha M. This 165-170 kDa cell surface glycoprotein is part of a family of integrin receptors that mediate adhesion between cells (cell-cell) and components of the extracellular matrix, e.g. fibrinogen (cell-matrix). In addition, integrins are active signaling receptors which recruit leukocytes to inflammatory sites and promote cell activation. Complete, functional integrin receptors consist of distinct combinations of integrin chains which are differentially expressed. Integrin alpha M (CD11b) assembles with Integrin beta-2 (CD18) into a receptor known as Macrophage Antigen-1 (Mac-1) or complement receptor type 3 (CR3). This receptor binds and induces intracellular signaling through ICAM-1, ICAM-2, ICAM-3 and ICAM-4 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells. The ICRF44 antibody is widely used as a marker for CD11b expression on macrophages, granulocytes, and subsets of NK cells.
Synonyms:	Integrin alpha-M, CD11 antigen-like family member B, CR-3 alpha chain, Cell surface glycoprotein MAC-1 subunit alpha, Leukocyte adhesion receptor MO1, Neutrophil adherence receptor, CD11b, CR3A
Host Species:	Mouse
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	ICRF44
Format:	IgG1
F/P Ratio:	1-2

Target Details

Gene Name:	ITGAM
Reactivity:	Human
Immunogen:	Anti-CD11b Antibody (Monoclonal) was produced by repeated immunizations with CD11b antigen.
Purity/Specificity:	Phycoerythrin conjugated CD11b Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD11b. Reactivity is observed against human CD11b, Baboon, Chimpanzee, Cynomolgus, Rhesus, and Swine. Cross reactivity with CD11b from other sources has not been tested. Anti-CD11b is conjugated with PE under optimal conditions and the solution is free of unconjugated PE.
Relevant Links:	• UniProtKB - P11215 • NCBI - NP_000623.2 • GeneID - 3684

Application Details

Tested Applications:	FC
Application Note:	Anti-CD11b is tested for Flow Cytometry and is useful in Immunofluorescence and Immunoprecipitation. Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	5µL/test/1x10e5 to 1x10e8 cells
IF:	User Optimized
IP:	User Optimized

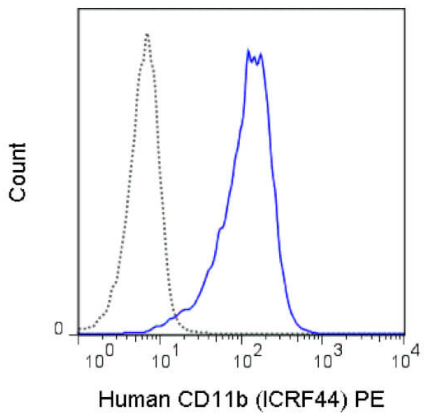
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.2 mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry
Flow Cytometry of Mouse anti-CD11b Phycoerythrin Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (Dotted Line) 1 µg PE Mouse IgG1 isotype control; (BLUE) Phycoerythrin Anti-CD11b mouse antibody using 5 ul (1 µg).

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