

Datasheet for 200-302-N63**CD11c Fluorescein Antibody****Overview**

Description:	Anti-CD11c (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N63
Item No.:	200-302-N63
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin α X and CR4. CD11c non-covalently associates with integrin β 2 (CD18) and is expressed on monocytes/macrophages, dendritic cells, granulocytes, NK cells, and subsets of T and B cells. CD11c has been reported to play a role in adhesion and CT. The 3.9 antibody reacts with human CD11c, also known as integrin alpha X. This 150 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 X (CD11c) assembles with Integrin beta-2 (CD18) into a receptor known as CR4 which can bind and induce signaling through ICAMs and VCAM-1 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells.
Synonyms:	Integrin alpha-X, CD11 antigen-like family member C, Leu M5, Leukocyte adhesion glycoprotein p150,95 alpha chain, Leukocyte adhesion receptor p150 95, CD11c
Host Species:	Mouse
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	3.9
Format:	IgG1
F/P Ratio:	4-6

Target Details

Gene Name:	ITGAX
Reactivity:	Human
Immunogen:	Anti-CD11c Antibody (Monoclonal) was produced by repeated immunizations with CD11c antigen.
Purity/Specificity:	Fluorescein conjugated CD11c Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD11c. Reactivity is observed against human CD11c, Chimpanzee, Baboon, African Green, Cynomolgus, Rhesus, and Squirrel Monkey. Cross reactivity with CD11c from other sources has not been tested. Anti-CD11c is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P20702 • NCBI - NP_000878.2 • GeneID - 3687

Application Details

Tested Applications:	FC
Application Note:	Anti-CD11c has been tested for Flow Cytometry and is useful for Immunohistochemistry. 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:	5 ul/1x10 ⁶ cells or 100µL of whole blood
IHC:	User Optimized

Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.2% BSA (w/v)

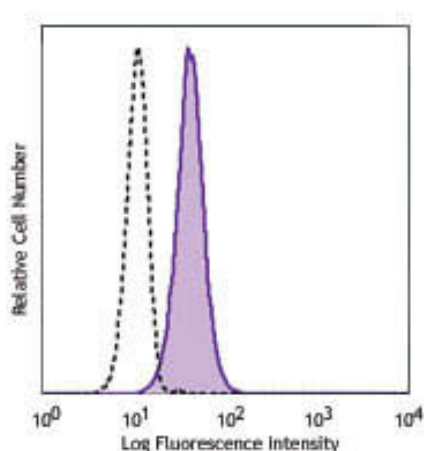
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.

Expiration: Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry

Flow Cytometry of Mouse anti-CD11c Fluorescein Conjugated Monoclonal Antibody. Cells: human peripheral blood granulocytes. Stimulation: none. Antibody: (Dotted line) FITC Mouse IgG1 kappa isotype control; (PURPLE) Fluorescein Anti-CD11c mouse antibody using 5 ul.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.