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Datasheet for 200-302-N20

CD11b Fluorescein Antibody

Overview

Description:	Anti-CD11b (MOUSE) Fluorescein Conjugated Monoclonal Antibody - 200-302-N20
Item No.:	200-302-N20
Size:	500 µL
Applications:	FC
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	CD11b is a 165-170 kD type I transmembrane glycoprotein also known as αM integrin, Mac-1, CR3, and C3biR. CD11b non-covalently associates with integrin β2 (CD18) and is expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils. It is also involved in granulocyte adhesion, phagocytosis, and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, and Factor X.
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:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	ICRF44
Format:	IgG1
F/P Ratio:	4-6

Target Details

Gene Name:	ITGAM

Reactivity:	Human
Immunogen:	Anti-CD11b Antibody (Monoclonal) was produced by repeated immunizations with CD11b antigen.
Purity/Specificity:	Fluorescein 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, Chimpanzee, Baboon, Cynomolgus, Rhesus, Common Marmoset, and Swine. Cross reactivity with CD11b from other sources has not been tested. Anti-CD11b is conjugated with FITC under optimal conditions and the solution is free of unconjugated FITC.
Relevant Links:	• UniProtKB - P11215 • NCBI - NP_000623.2 • GeneID - 3684

Application Details

Tested Applications:	FC
Application Note:	Anti-CD11b has been tested in Flow Cytometry and is useful for 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:	5 ul/1x10e6 cells or 100µL of whole blood
IF:	User Optimized
IP:	User Optimized

Formulation

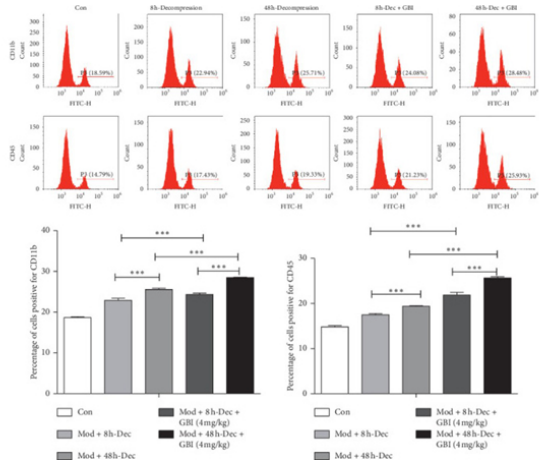
Physical State:	Liquid (sterile filtered)
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.2% BSA (w/v)

Shipping & Handling

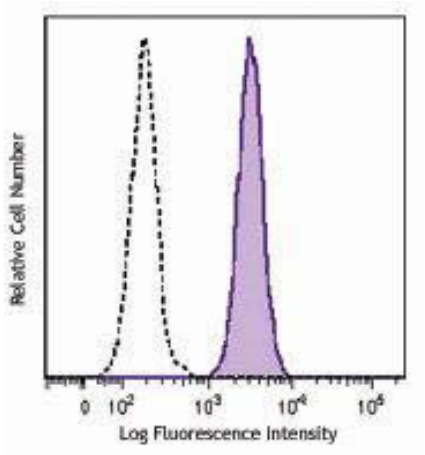
Shipping Condition:	Wet Ice

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
Inflammatory (macrophage) infiltration. Flow cytometry of the percentage of cells positive for surface markers of glial cells (CD11b and CD45). The experiments were performed 3 days after SCI. Fig 4. PMID: 32565871



Flow Cytometry
Flow Cytometry of Mouse anti-CD11b Fluorescein Conjugated Monoclonal Antibody. Cells: human peripheral blood granulocytes. Stimulation: none. Antibody: (Dotted line) FITC Mouse IgG1 kappa isotype control; (PURPLE) Fluorescein Anti-CD11b mouse antibody using 5 ul.

References

- Guo X. et al. Effects of Ginkgo biloba on Early Decompression after Spinal Cord Injury. *Evid Based Complement Alternat Med.* (2020)

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