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Datasheet for 200-502-N79

CD11b Fluorescein Antibody

Overview

Description:	Anti-CD11b (RAT) Fluorescein Conjugated Monoclonal Antibody - 200-502-N79
Item No.:	200-502-N79
Size:	500 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	CD11b antibody reacts with human and mouse 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 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells. The M1/70 antibody is widely used as a marker for CD11b expression on mouse macrophages, granulocytes, neutrophils, and NK cells.
Synonyms:	CD11b
Host Species:	Rat
Conjugate:	Fluorescein (FITC)
Clonality:	Monoclonal
Clone ID:	M1/70
Format:	IgG2b
F/P Ratio:	2-8

Target Details

Gene Name:	Itgam
Reactivity:	Mouse
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 mouse CD11b. Cross reactive to Human, Chimpanzee, Baboon, Cynomolgus, and Rhesus. The antibody is also reported to be cross-reactive for Rhesus macaque CD11b. 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 - A1E2I0

Application Details

Tested Applications:	FC
Application Note:	Anti-CD11b is tested for FLOW and useful for Immunoprecipitation and Immunohistochemistry using mouse spleen cells, or an appropriate cell type (where indicated). 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:	10 µL/10^6 cells (0.1 µg)
IHC:	User Optimized
IP:	User Optimized

Formulation

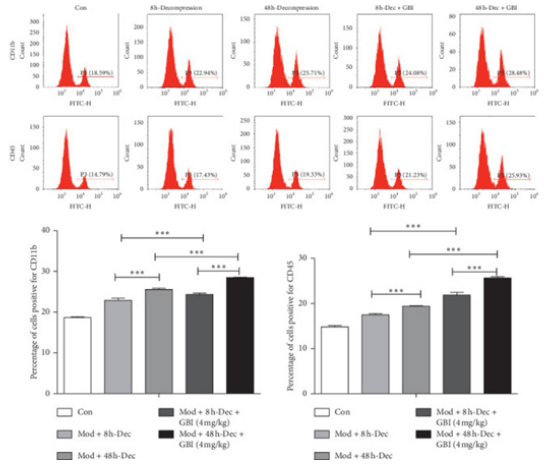
Physical State:	Liquid (sterile filtered)
Concentration:	0.5mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	0.1% Gelatin

Shipping & Handling

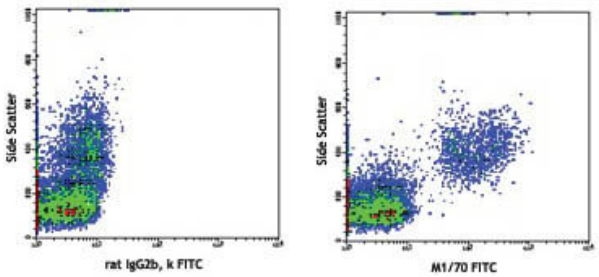
Shipping Condition:	Wet Ice

Storage Condition:	Store vial at 4° C prior to opening. 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 anti-CD11b Fluorescein Conjugated Monoclonal Antibody. Cells: mouse bone marrow cells. Stimulation: none. Antibody: (Left Panel) FITC Rat IgG2b Kappa isotype control; (Right Panel) Fluorescein Anti-CD11b antibody.

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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