

## Datasheet for 200-302-N20

**CD11b Fluorescein Antibody****Overview**

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

**Product Details**

<b>Background:</b>	CD11b is a 165-170 kD type I transmembrane glycoprotein also known as $\alpha$ M integrin, Mac-1, CR3, and C3biR. CD11b non-covalently associates with integrin $\beta$ 2 (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.
<b>Synonyms:</b>	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
<b>Host Species:</b>	Mouse
<b>Conjugate:</b>	Fluorescein (FITC)
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	ICRF44
<b>Format:</b>	IgG1
<b>F/P Ratio:</b>	4-6

**Target Details**

<b>Gene Name:</b>	ITGAM
-------------------	-------

<b>Reactivity:</b>	Human
<b>Immunogen:</b>	Anti-CD11b Antibody (Monoclonal) was produced by repeated immunizations with CD11b antigen.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P11215</a></li><li>• <a href="#">NCBI - NP_000623.2</a></li><li>• <a href="#">GeneID - 3684</a></li></ul>

## Application Details

<b>Tested Applications:</b>	FC
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>FC:</b>	5 ul/1x10e6 cells or 100µL of whole blood
<b>IF:</b>	User Optimized
<b>IP:</b>	User Optimized

## Formulation

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

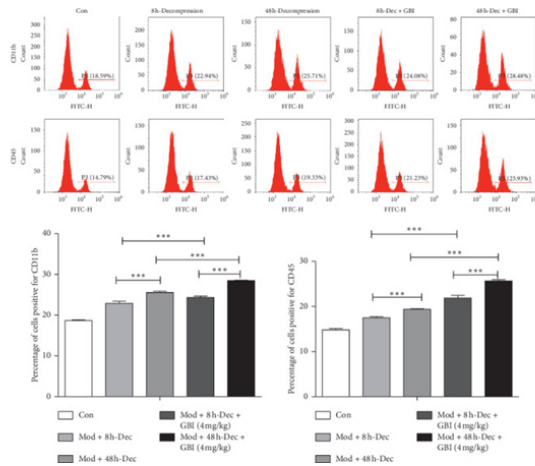
## Shipping & Handling

<b>Shipping Condition:</b>	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

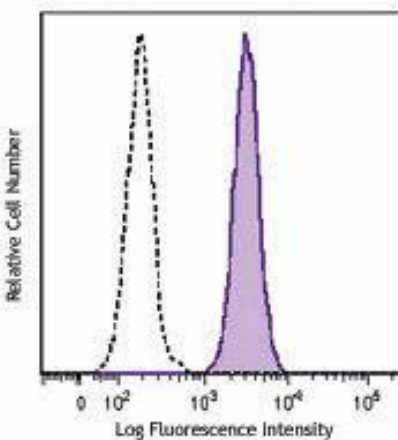


## Flow Cytometry

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)

## 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.