

**Datasheet for 200-508-N79****CD11b Phycoerythrin Antibody****Overview**

|                      |                                                                             |
|----------------------|-----------------------------------------------------------------------------|
| <b>Description:</b>  | Anti-CD11b (RAT) Phycoerythrin Conjugated Monoclonal Antibody - 200-508-N79 |
| <b>Item No.:</b>     | 200-508-N79                                                                 |
| <b>Size:</b>         | 200 µg                                                                      |
| <b>Applications:</b> | FC, IF, Multiplex                                                           |
| <b>Reactivity:</b>   | Mouse                                                                       |
| <b>Host Species:</b> | Rat                                                                         |

**Product Details**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background:</b>   | CD11b is a 170 kD glycoprotein also known as $\alpha$ M integrin, Mac-1 $\alpha$ subunit, Mol, CR3, and Ly-40. CD11b is a member of the integrin family, primarily expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b non-covalently associates with CD18 ( $\beta$ 2 integrin) to form Mac-1. Mac-1 plays an important role in cell-cell interaction by binding its ligands ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4 (CD242), iC3b, and fibrinogen. |
| <b>Synonyms:</b>     | CD11b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Host Species:</b> | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Conjugate:</b>    | R-Phycoerythrin (RPE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Clonality:</b>    | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Clone ID:</b>     | M1/70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Format:</b>       | IgG2b                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>F/P Ratio:</b>    | 1-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

**Target Details**

|                    |       |
|--------------------|-------|
| <b>Gene Name:</b>  | Itgam |
| <b>Reactivity:</b> | Mouse |

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Immunogen:</b>          | Anti-CD11b Antibody (Monoclonal) was produced by repeated immunizations with CD11b antigen.                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity/Specificity:</b> | Phycoerythrin conjugated CD11b Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse CD11b. Cross reactivity Human, Chimpanzee, Baboon, Cynomolgus, Rhesus, Rabbit (Lapine). 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. |
| <b>Relevant Links:</b>     | <ul style="list-style-type: none"><li>• <a href="#">UniProtKB - A1E2I0</a></li></ul>                                                                                                                                                                                                                                                                                                                                         |

## Application Details

|                             |                                                                                                                                                                                                                                                              |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b> | FC, IF, Multiplex                                                                                                                                                                                                                                            |
| <b>Application Note:</b>    | Anti-CD11b is tested for FLOW and IF; 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. |
| <b>Assay Dilutions:</b>     | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.                                                                                                                                                              |
| <b>FC:</b>                  | 10 $\mu$ L/10 <sup>6</sup> cells (0.1 $\mu$ g)                                                                                                                                                                                                               |
| <b>IF:</b>                  | User Optimized                                                                                                                                                                                                                                               |
| <b>IHC:</b>                 | User Optimized                                                                                                                                                                                                                                               |
| <b>IP:</b>                  | User Optimized                                                                                                                                                                                                                                               |

## Formulation

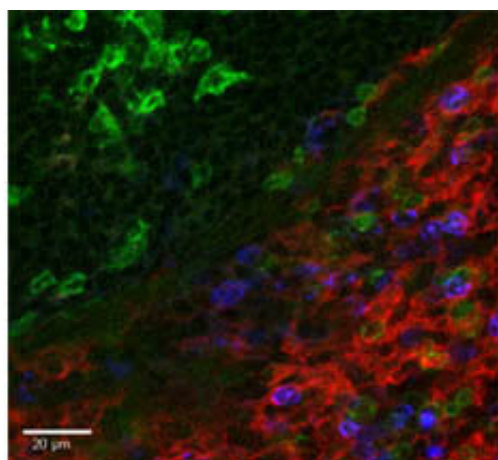
|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Physical State:</b> | Liquid (sterile filtered)                               |
| <b>Concentration:</b>  | 0.2 mg/mL Sufficient to run approximately 100 tests     |
| <b>Buffer:</b>         | 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| <b>Preservative:</b>   | 0.09% (w/v) Sodium Azide                                |
| <b>Stabilizer:</b>     | None                                                    |

## Shipping & Handling

|                            |         |
|----------------------------|---------|
| <b>Shipping Condition:</b> | Wet Ice |
|----------------------------|---------|

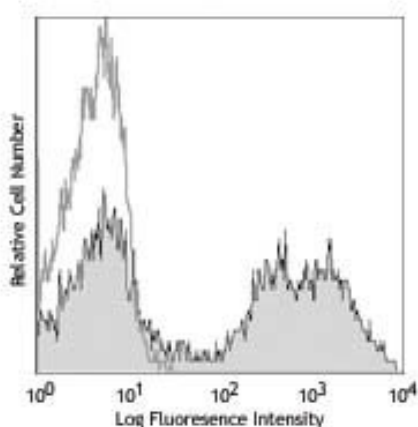
|                           |                                                                                                                                                                                                                                                           |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage Condition:</b> | 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. |
| <b>Expiration:</b>        | Expiration date is six (6) months from date of receipt.                                                                                                                                                                                                   |

## Images



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of Anti-CD11b  
 Phycoerythrin Conjugated antibody. Tissue: mouse spleen.  
 Fixation: 0.5% PFA. Antigen retrieval: not required.  
 Primary antibody: CD11b PE antibody at  $\leq 0.25 \mu\text{g}$  per  $10 \times 6$   
 cells in  $100 \mu\text{l}$  volume for 1 h at RT. Secondary antibody:  
 Alexa Fluor® 488 secondary antibody at 1:10,000 for 45 min  
 at RT. Staining: Alexa Fluor® 488 F4/80 (red), Brilliant Violet  
 421™ CD3ε (green), and PE conjugated CD11b (blue).



### Flow Cytometry

Flow Cytometry of anti-CD11b Phycoerythrin Conjugated  
 Monoclonal Antibody. Cells: C57Bl/6 mouse bone marrow.  
 Stimulation: none. Antibody: (Dotted Line) PE Rat IgG2b  
 isotype control; (Filled Line) Phycoerythrin Anti-CD11b  
 antibody.

## 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.