

# CD11b Monoclonal Antibody (M1/70), eBioscience™

| Product Details    |                         |
|--------------------|-------------------------|
| Size               | 100 µg                  |
| Species Reactivity | Mouse                   |
| Published Species  | Fish, Mouse, Human      |
| Host/Isotope       | Rat / IgG2b, kappa      |
| Class              | Monoclonal              |
| Type               | Antibody                |
| Clone              | M1/70                   |
| Conjugate          | Unconjugated            |
| Form               | Liquid                  |
| Concentration      | 0.5 mg/mL               |
| Purification       | Affinity chromatography |
| Storage buffer     | PBS, pH 7.2             |
| Contains           | 0.09% sodium azide      |
| Storage Conditions | 4° C                    |
| RRID               | AB_467108               |

| Applications                              | Tested Dilution | Publications     |
|---|-----------------|------------------|
| Flow Cytometry (Flow)                     | 0.25 µg/test    | 334 Publications |
| Functional Assay (FN)                     | Assay-Dependent | 3 Publications   |
| Immunohistochemistry (Frozen) (IHC (F))   | Assay-Dependent | 3 Publications   |
| Immunoprecipitation (IP)                  | Assay-Dependent | 1 Publication    |
| Neutralization (Neu)                      | Assay-Dependent | 5 Publications   |
| ELISA (ELISA)                             | -               | 1 Publication    |
| Immunocytochemistry (ICC)                 | -               | 6 Publications   |
| Immunofluorescence (IF)                   | -               | 36 Publications  |
| Immunohistochemistry (IHC)                | -               | 24 Publications  |
| Immunohistochemistry (Paraffin) (IHC (P)) | -               | 1 Publication    |
| In vitro Assay (IV)                       | -               | 1 Publication    |
| Inhibition Assays (IA)                    | -               | 1 Publication    |
| Miscellaneous PubMed (Misc)               | -               | 6 Publications   |
| Western Blot (WB)                         | -               | 1 Publication    |

## Product Specific Information

Description: The M1/70 monoclonal antibody reacts with mouse CD11b, the 165-170 kDa integrin alphaM. CD11b non-covalently associates with CD18 to form alphaMbeta2 integrin (Mac-1) and binds to CD54 (ICAM-1), C3bi, and fibrinogen. Mac-1 is expressed by macrophages, NK cells, granulocytes, activated lymphocytes and mouse B-1 cells in the peritoneal cavity. M1/70 is also cross-reactive to human CD11b, and can be used for the detection of this antigen on human peripheral blood monocytes, granulocytes, and a subset of NK cells. Through interactions with its ligands, CD11b participates in adhesive cell interactions.

Applications Reported: The M1/70 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue. The M1/70 clone is not recommended for immunohistochemical staining of formalin-fixed paraffin embedded tissue. M1/70 has also been reported in in vitro blocking of CD11b function. (Please use Functional Grade purified M1/70, cat. 16-0112, in functional assays.).

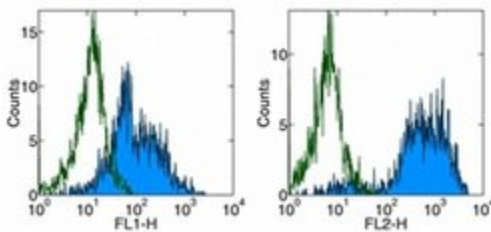
Applications Tested: The M1/70 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD11b Monoclonal Antibody (M1/70), eBioscience™



### CD11b Antibody (14-0112-82) in Flow

Staining of mouse bone marrow with Anti-Mouse CD11b FITC (left) and PE (right). Appropriate isotype controls were used (open histogram). Cells in the myeloid population were used for analysis.

[View more figures on thermofisher.com](https://thermofisher.com)

## 423 References

### Flow Cytometry (334)

Frontiers in immunology

#### Tpl2 Protects Against Fulminant Hepatitis Through Mobilization of Myeloid-Derived Suppressor Cells.

"Published figure using CD11b monoclonal antibody (Product # 14-0112-82) in Flow Cytometry"

Authors: Xu J, Pei S, Wang Y, Liu J, Qian Y, Huang M, Zhang Y, Xiao Y

Species

Not Applicable

Dilution

Not Cited

Year

2020

NPJ vaccines

#### Neutrophil swarming and extracellular trap formation play a significant role in Alum adjuvant activity.

"Published figure using CD11b monoclonal antibody (Product # 14-0112-82) in Flow Cytometry"

Authors: Stephen J, Scales HE, Benson RA, Erben D, Garside P, Brewer JM

Species

Not Applicable

Dilution

Not Cited

Year

2020

[View more Flow references on thermofisher.com](https://thermofisher.com)

Frontiers in physiology

### Macrophage Depletion Protects against Cigarette Smoke-Induced Inflammatory Response in the Mouse Colon and Lung.

"Published figure using CD11b monoclonal antibody (Product # 14-0112-82) in Flow Cytometry"

Authors: Lim D, Kim W, Lee C, Bae H, Kim J

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

JCI insight

### Analysis of leukocyte transepithelial migration using an in vivo murine colonic loop model.

"Published figure using CD11b monoclonal antibody (Product # 14-0112-82) in Immunofluorescence"

Authors: Flemming S, Luissint AC, Nusrat A, Parkos CA

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

[View more IHC references on thermofisher.com](#)

## More applications with references on thermofisher.com

**IF (36)** **IV (1)** **ICC (6)** **IP (1)** **Misc (6)** **Neu (5)** **ELISA (1)** **FN (3)** **IHC (F) (3)** **WB (1)** **IHC (P) (1)**  
**IA (1)**

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.