

# CD11b Monoclonal Antibody (M1/70), Super Bright™ 780, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 100 µg  |
| Species Reactivity          | Mouse   |
| Published Species           | Mouse   |
| Host/Isotype                | Rat / IgG2b, kappa  |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 780, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | M1/70   |
| Conjugate                   | Super Bright™ 780   |
| Form                        | Liquid  |
| Concentration               | 0.2 mg/mL   |
| Purification                | Affinity chromatography   |
| Storage buffer              | PBS, pH 7.2, with BSA   |
| Contains                    | 0.09% sodium azide  |
| Storage conditions          | 4° C, store in dark, DO NOT FREEZE!   |
| RRID                        | AB_2722926  |

| Applications                                 | Tested Dilution | Publications    |
|--|-----------------|-----------------|
| Immunohistochemistry (IHC)                   | -               | 8 Publications  |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | -               | 2 Publications  |
| Immunohistochemistry (Frozen) (IHC (F))      | -               | 2 Publications  |
| Immunocytochemistry (ICC/IF)                 | -               | 5 Publications  |
| Flow Cytometry (Flow)                        | 0.125 µg/test   | 34 Publications |
| Neutralization (Neu)                         | -               | 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: This M1/70 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This M1/70 antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This may be

used at less than or equal to 0.125 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.

Super Bright 780 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

In some experiments, we have observed that compensation values for Super Bright 780-conjugated antibodies are higher in the violet 450/50 channel when using UltraComp eBeads microspheres (Product # 01-2222-42) as compared to single-color stained cells. In such circumstances, we would recommend setting compensation with cells. We have also observed this in some experiments using AbC Total Antibody Compensation beads (Product # A10497).

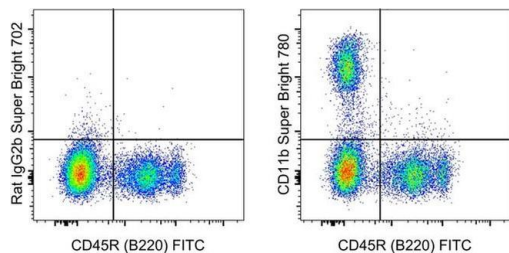
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 780 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

## Product Images For CD11b Monoclonal Antibody (M1/70), Super Bright™ 780, eBioscience™



### CD11b Antibody (78-0112-82) in Flow

BALB/c mouse bone marrow cells were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.06 µg of Rat IgG2b kappa Isotype Control, Super Bright 780 (Product # 78-4031-82) (left) or 0.06 µg of CD11b Monoclonal Antibody, Super Bright 780 (right). Total viable cells were used for analysis.

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

## Immunohistochemistry (8)

Journal of inflammation research

### Dual Activity of Ginsenoside Rb1 in Hypertrophic Cardiomyocytes and Activated Macrophages: Implications for the Therapeutic Intervention of Cardiac Hypertrophy.

"Published figure using CD11b monoclonal antibody (Product # 78-0112-82) in Immunohistochemistry"

Authors: Wang S,Cui Y,Xiong M,Li M,Wang P,Cui J,Du X,Chen Y,Zhang T

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2022

International journal of molecular sciences

### *Mycobacterium tuberculosis* Load in Host Cells and the Antibacterial Activity of Alveolar Macrophages Are Linked and Differentially Regulated in Various Lung Lesions of Patients with Pulmonary Tuberculosis.

"Published figure using CD11b monoclonal antibody (Product # 78-0112-82) in Immunohistochemistry"

Authors: Ufimtseva EG,Eremeeva NI,Umpeleva TV,Vakhrusheva DV,Skornyakov SN

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

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

## Immunohistochemistry (PFA fixed) (2)

Frontiers in cardiovascular medicine

### Serp-1 Promotes Corneal Wound Healing by Facilitating Re-epithelialization and Inhibiting Fibrosis and Angiogenesis.

"Published figure using CD11b monoclonal antibody (Product # 78-0112-82) in Immunohistochemistry (PFA fixed)"

Authors: Ju B,Guo O,Benissan-Messan DZ,Shawver MH,Chen P,Geng B,Wei S,Yaron JR,Lucas AR,Zhu H

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2021

PLoS biology

### Targeting miR-27a/VE-cadherin interactions rescues cerebral cavernous malformations in mice.

"Published figure using CD11b monoclonal antibody (Product # 78-0112-82) in Immunohistochemistry (PFA fixed)"

Authors: Li J,Zhao Y,Choi J,Ting KK,Coleman P,Chen J,Cogger VC,Wan L,Shi Z,Moller T,Zheng X,Vadas MA,Gamble JR

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2020

## More applications with references on thermofisher.com

IHC (F) (2)

ICC/IF (5)

Flow (34)

Neu (1)

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