

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 |
| Excitation/Emission Max | 413/780 nm |
| 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 |
|--|-----------------|------------------|
| Western Blot (WB) | - | 2 Publications |
| Immunohistochemistry (IHC) | - | 13 Publications |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 4 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 2 Publications |
| Immunocytochemistry (ICC/IF) | - | 6 Publications |
| Flow Cytometry (Flow) | 0.125 µg/test | 122 Publications |
| Neutralization (Neu) | - | 2 Publications |

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 10⁵ to 10⁸ 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).

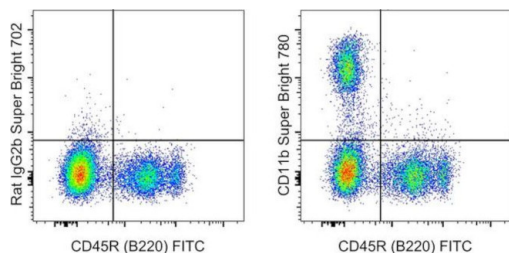
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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.cn](http://thermofisher.cn)

Western Blot (2)

Cells

Influence of the Postmortem/Storage Time of Human Corneas on the Properties of Cultured Limbal Epithelial Cells.

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

Authors: Le-Bel G, Desjardins P, Gross C, Cortez Ghio S, Couture C, Germain L, Guérin SL

Year
2022

Bioengineered

Circular RNA SMEK1 promotes neuropathic pain in rats through targeting microRNA-216a-5p to mediate Thioredoxin Interacting Protein (TXNIP) expression.

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

Authors: Xin Y, Song X, Ge Q

Year
2021

Immunohistochemistry (13)

MedComm

Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of *Pseudomonas aeruginosa*.

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

Authors: Hu X, Wu M, Ma T, Zhang Y, Zou C, Wang R, Zhang Y, Ren Y, Li Q, Liu H, Li H, Wang T, Sun X, Yang Y, Tang M, Li X, Li J, Gao X, Li T, Zhou X

Year
2022

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

Year
2022

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

More applications with references on thermofisher.cn

IHC (PFA) (4)

IHC (F) (2)

ICC/IF (6)

Flow (122)

Neu (2)

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