

# CD11b Monoclonal Antibody (M1/70), Brilliant Ultra Violet™ 661, eBioscience™

| Product Details             |   |
|-----------------------------|---|
| Size                        | 25 µg   |
| Species Reactivity          | Mouse   |
| Host/Isotype                | Rat / IgG2b, kappa  |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), Brilliant Ultra Violet™ 661, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | M1/70   |
| Conjugate                   | Brilliant Ultra Violet™ 661   |
| Excitation/Emission Max     | 349/659 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_2925439  |

| Applications          | Tested Dilution | Publications |
|-----------------------|-----------------|--------------|
| Flow Cytometry (Flow) | 0.25 µg/test    | -            |

## 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 0.25 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.

Brilliant Ultra Violet™ 661 (BUV661) is a tandem dye that emits at 660 nm and is intended for use on cytometers equipped with an ultraviolet (355 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401-42) or Brilliant Stain Buffer™ (Product # 00-4409-75) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

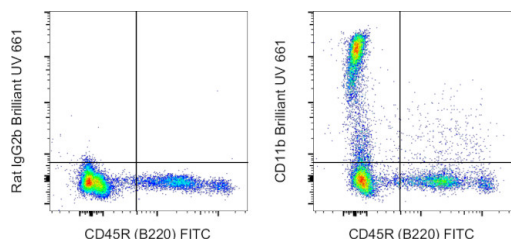
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100  $\mu$ L of cell sample + 100  $\mu$ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 350 nm; Emission: 660 nm; Laser: Ultraviolet Laser.

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## Product Images For CD11b Monoclonal Antibody (M1/70), Brilliant Ultra Violet™ 661, eBioscience™



### CD11b Antibody (376-0112-80) in Flow

BALB/c mouse bone marrow cells were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.125  $\mu$ g of Rat IgG2b kappa Isotype Control, Brilliant Ultra Violet 661 (Product # 376-4031-81) (left) or 0.125  $\mu$ g of CD11b Monoclonal Antibody, Brilliant Ultra Violet 661 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

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