

# CD11b Monoclonal Antibody (ICRF44), Super Bright™ 780, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Baboon, Chimpanzee, Cynomolgus monkey, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	ICRF44
Conjugate	Super Bright™ 780
Excitation/Emission Max	413/780 nm
Form	Liquid
Concentration	5 µL/Test
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_2724054

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	17 Publications

## Product Specific Information

**Description:** The ICRF44 monoclonal antibody reacts with human CD11b, a 165 kDa adhesion molecule. CD11b associated with integrin beta2 (CD18) is expressed on the surface of monocytes, granulocytes, activated lymphocytes and a subset of NK cells. CD11b is a receptor for intercellular adhesion molecule family members CD54, CD102 and CD50 as well as for iC3b. These adhesions are crucial in cell-cell and cell-matrix interactions.

**Applications Reported:** This ICRF44 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This ICRF44 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.5 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.

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).

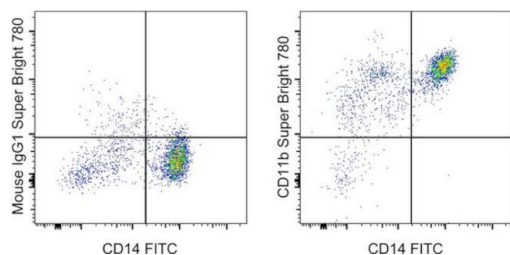
**Light sensitivity:** This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

**Fixation:** Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100  $\mu$ L of cell sample + 100  $\mu$ L 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 (ICRF44), Super Bright™ 780, eBioscience™



### CD11b Antibody (78-0118-42) in Flow

Normal human peripheral blood cells were stained with CD14 Monoclonal Antibody, APC (Product # 17-0149-82) and Mouse IgG1 kappa Isotype Control, Super Bright 780 (Product # 78-4714-82) (left) or CD11b Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

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

## 18 References

### Immunohistochemistry (1)

Frontiers in cell and developmental biology

#### Post-amputation reactive oxygen species production is necessary for axolotls limb regeneration.

"Published figure using CD11b monoclonal antibody (Product # 78-0118-42) in Immunohistochemistry"

Authors: Carbonell-M B,Zapata Cardona J,Delgado JP

Year  
2022

### Flow Cytometry (17)

International journal of molecular sciences

#### ELMO1 Deficiency Reduces Neutrophil Chemotaxis in Murine Peritonitis.

"Published figure using CD11b monoclonal antibody (Product # 78-0118-42) in Flow Cytometry"

Authors: Yu S,Geng X,Liu H,Zhang Y,Cao X,Li B,Yan J

Year  
2023

Communications biology

#### Regulation of synaptic connectivity in schizophrenia spectrum by mutual neuron-microglia interaction.

"Published figure using CD11b monoclonal antibody (Product # 78-0118-42) in Flow Cytometry"

Authors: Breitmeyer R,Vogel S,Heider J,Hartmann SM,Wüst R,Keller AL,Binner A,Fitzgerald JC,Fallgatter AJ,Volkmer H

Year  
2023

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

### More applications with references on thermofisher.com

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