

# CD11c Monoclonal Antibody (3.9), Super Bright™ 702, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	3.9
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2662656

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	10 Publications

## Product Specific Information

**Description:** The 3.9 monoclonal antibody reacts with human CD11c, the 150 kDa integrin alpha X chain. CD11c non-covalently associates with beta2 integrin to form the CD11c/CD18 heterodimer. This complex is expressed on monocytes, granulocytes, macrophages, NK, dendritic cells and subset of T and B lymphocytes. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions.

**Applications Reported:** This 3.9 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 3.9 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells 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 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

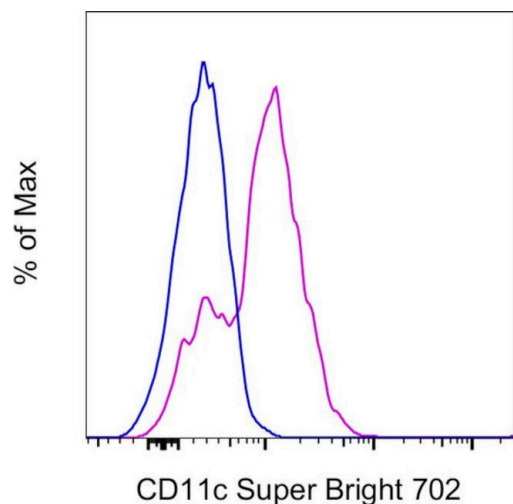
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 702 nm; Laser: Violet Laser

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

### Product Images For CD11c Monoclonal Antibody (3.9), Super Bright™ 702, eBioscience™



#### CD11c Antibody (67-0116-42) in Flow

Normal human peripheral blood cells were stained with Mouse IgG1 kappa Isotype Control, Super Bright 702 (Product # 67-4714-82) (blue histogram) or CD11c Monoclonal Antibody, Super Bright 702 (purple histogram). Cells in the monocyte gate were used for analysis.

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

## 10 References

### Flow Cytometry (10)

#### Poultry science

#### Long-term supplementation of genistein improves immune homeostasis in the aged gut and extends the laying cycle of aged laying hens.

"Published figure using CD11c monoclonal antibody (Product # 67-0116-42) in Flow Cytometry"

Authors: Hou Q, Li G, Pan X, Zhong X, Geng X, Yang X, Yang X, Zhang B

Year  
2024

#### Respiratory research

#### Alveolar macrophages from EVALI patients and e-cigarette users: a story of shifting phenotype.

"Published figure using CD11c monoclonal antibody (Product # 67-0116-42) in Flow Cytometry"

Authors: Warren KJ, Beck EM, Callahan SJ, Helms MN, Middleton E, Maddock S, Carr JR, Harris D, Blagev DP, Lanspa MJ, Brown SM, Paine R

Year  
2023

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

### More applications with references on thermofisher.com

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