

# CD11c Monoclonal Antibody (N418), Super Bright™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
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_2744900

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	8 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	40 Publications

## Product Specific Information

**Description:** The N418 monoclonal antibody reacts with mouse CD11c, the integrin alphaX. CD11c non-covalently associates with beta2 integrin to form the CD11c/CD18 heterodimer. CD11c is expressed by dendritic cells, a subset of Intestinal Intraepithelial Lymphocytes (IEL) and some activated T cells. CD11c/CD18 binds to CD54, iC3b and fibrinogen and plays a role in leukocyte adhesive interactions. N418 binds to CD11c on splenic dendritic cells in the T-dependent areas of mouse spleen and precipitates a 150, 90 kDa heterodimer.

**Applications Reported:** This N418 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 780 can be excited with the violet laser line (405 nm) and emits at 780 nm. We recommend using a 780/60 bandpass filter, or equivalent. 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).

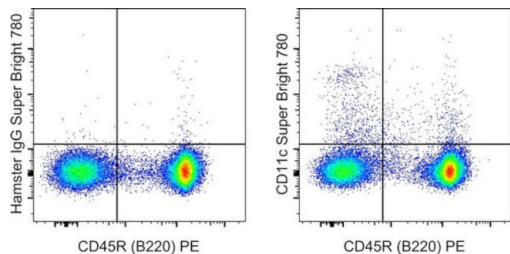
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 CD11c Monoclonal Antibody (N418), Super Bright™ 780, eBioscience™**



**CD11c Antibody (78-0114-82) in Flow**  
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, PE (Product # 12-0452-82) and 0.25  $\mu$ g of Armenian Hamster IgG Isotype Control, Super Bright 780 (Product # 78-4888-82) (left) or 0.25  $\mu$ g of CD11c Monoclonal Antibody, Super Bright 780 (right). Cells in the lymphocyte gate were used for analysis.

**View more figures on [thermofisher.cn](https://thermofisher.cn)**

## Western Blot (1)

Journal of proteome research	Year 2021
<b>Enrichment of Neurodegenerative Microglia Signature in Brain-Derived Extracellular Vesicles Isolated from Alzheimer's Disease Mouse Models.</b>	
"Published figure using CD11c monoclonal antibody (Product # 78-0114-82) in Western Blot"	
Authors: Muraoka S,Jedrychowski MP,Iwahara N,Abdullah M,Onos KD,Keezer KJ,Hu J,Ikezu S,Howell GR,Gygi SP,Ikezu T	

## Immunohistochemistry (8)

MedComm	Year 2022
<b>Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of <i>Pseudomonas aeruginosa</i>.</b>	
"Published figure using CD11c monoclonal antibody (Product # 78-0114-82) 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	

International journal of oral science	Year 2022
<b>Targeted inhibition of osteoclastogenesis reveals the pathogenesis and therapeutics of bone loss under sympathetic neurostress.</b>	
"Published figure using CD11c monoclonal antibody (Product # 78-0114-82) in Immunohistochemistry"	
Authors: Sui B,Liu J,Zheng C,Dang L,Chen J,Cao Y,Zhang K,Liu L,Dang M,Zhang L,Chen N,He T,Xuan K,Jin F,Zhang G,Jin Y,Hu C	

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

## Immunocytochemistry (2)

Journal of cellular physiology	Year 2016
<b>Identification of a Hematopoietic Cell Dedifferentiation-Inducing Factor.</b>	
"Published figure using CD11c monoclonal antibody (Product # 78-0114-82) in Immunocytochemistry"	
Authors: Li Y,Adomat H,Guns ET,Hojabrpour P,Duronio V,Curran TA,Jalili RB,Jia W,Delwar Z,Zhang Y,Elizei SS,Ghahary A	

## More applications with references on thermofisher.cn

## Flow (40)

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