

# CD11c Monoclonal Antibody (N418), Super Bright™ 600, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2722930

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	8 Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.125 µg/test	42 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 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 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 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

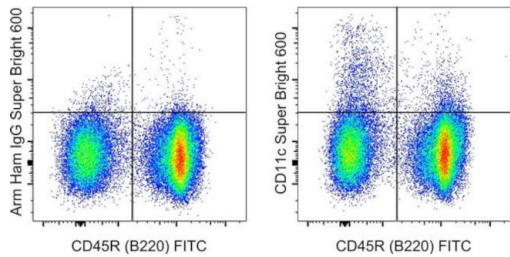
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 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: 600 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™ 600, eBioscience™**



**CD11c Antibody (63-0114-82) in Flow**  
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, FITC (Product # 11-0452-82) and 0.06 µg of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 0.06 µg of CD11c Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis.

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## Immunohistochemistry (8)

<p><b>MedComm</b></p> <p><b>Single-cell transcriptomics reveals distinct cell response between acute and chronic pulmonary infection of <i>Pseudomonas aeruginosa</i>.</b></p> <p>"Published figure using CD11c monoclonal antibody (Product # 63-0114-82) in Immunohistochemistry"</p> <p>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</p>	<p><b>Year</b> 2022</p>
<p><b>International journal of oral science</b></p> <p><b>Targeted inhibition of osteoclastogenesis reveals the pathogenesis and therapeutics of bone loss under sympathetic neurostress.</b></p> <p>"Published figure using CD11c monoclonal antibody (Product # 63-0114-82) in Immunohistochemistry"</p> <p>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</p>	<p><b>Year</b> 2022</p>

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## Immunocytochemistry (2)

<p><b>Journal of cellular physiology</b></p> <p><b>Identification of a Hematopoietic Cell Dedifferentiation-Inducing Factor.</b></p> <p>"Published figure using CD11c monoclonal antibody (Product # 63-0114-82) in Immunocytochemistry"</p> <p>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</p>	<p><b>Year</b> 2016</p>
<p><b>The Journal of endocrinology</b></p> <p><b>Leptin receptor is expressed in thymus medulla and leptin protects against thymic remodeling during endotoxemia-induced thymus involution.</b></p> <p>"Published figure using CD11c monoclonal antibody (Product # 63-0114-82) in Immunocytochemistry"</p> <p>Authors: Gruver AL,Ventevogel MS,Sempowski GD</p>	<p><b>Year</b> 2009</p>

## More applications with references on thermofisher.com

## Flow (42)

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