

CD11c Monoclonal Antibody (N418), PE-eFluor 610, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotope	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE-eFluor 610, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	PE-eFluor® 610
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574530

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	57 Publications
Immunohistochemistry (Frozen) (IHC (F))	-		3 Publications

Product Specific Information

Description: The N418 monoclonal antibody reacts with mouse CD11c, the integrin alpha X. CD11c non-covalently associates with beta 2 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 0.25 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

PE-eFluor® 610 can be excited with laser lines from 488-561 nm and emits at 607 nm. We recommend using a 610/20 band pass filter (equivalent to PE-Texas Red®). Please make sure that your instrument is capable of detecting this fluorochrome.

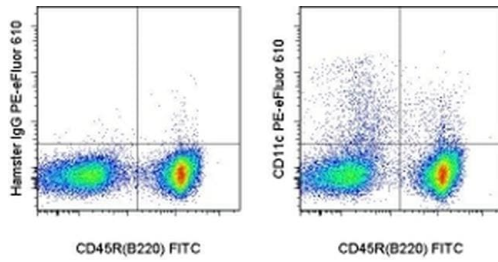
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 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: 488-561 nm; Emission: 607 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD11c Monoclonal Antibody (N418), PE-eFluor 610, eBioscience™



CD11c Antibody (61-0114-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 μ g of Armenian Hamster IgG Isotype Control PE-eFluor® 610 (Product # 61-4888-82) (left) or 0.125 μ g of Anti-Mouse CD11c PE-eFluor® 610 (Product # 61-0114-82) (right). Total viable cells, as determined by Propidium Iodide Staining Solution (Product # 00-5990-50), were used for analysis.

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

Flow Cytometry (57)

Frontiers in immunology

FcRI -Chain Negatively Modulates Dectin-1 Responses in Dendritic Cells.

"Published figure using CD11c monoclonal antibody (Product # 61-0114-82) in Flow Cytometry"

Authors: Pan YG,Yu YL,Lin CC,Lanier LL,Chu CL

Species
Not Applicable

Dilution
Not Cited

Year
2018

Oncology letters

Photodynamic therapy reduces the inhibitory effect of osteosarcoma cells on dendritic cells by upregulating HSP70.

"Published figure using CD11c monoclonal antibody (Product # 61-0114-82) in Flow Cytometry"

Authors: Zhang F,Zhu Y,Fan G,Hu S

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunohistochemistry (Frozen) (3)

The Journal of experimental medicine

Essential roles of DC-derived IL-15 as a mediator of inflammatory responses in vivo.

Authors: Ohteki T,Tada H,Ishida K,Sato T,Maki C,Yamada T,Hamuro J,Koyasu S

Species
Not Applicable

Dilution
Not Cited

Year
2006

International immunology

The existence of CD11c+ sentinel and F4/80+ interstitial dendritic cells in dental pulp and their dynamics and functional properties.

Authors: Zhang J,Kawashima N,Suda H,Nakano Y,Takano Y,Azuma M

Species
Not Applicable

Dilution
Not Cited

Year
2006

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More applications with references on thermofisher.com

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