

CD11c Monoclonal Antibody (N418), PE-Cyanine5, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), PE-Cyanine5, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	PE-Cyanine5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_468717

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	95 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: The N418 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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

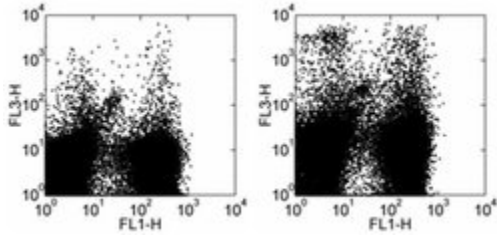
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix /Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific

performance should be determined empirically.

Excitation: 488-561 nm; Emission: 667 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD11c Monoclonal Antibody (N418), PE-Cyanine5, eBioscience™



CD11c Antibody (15-0114-82) in Flow

Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.25 µg of Armenian Hamster IgG Isotype Control PE-Cyanine5 (Product # 15-4888-82) (left) or 0.25 µg Anti-Mouse CD11c PE-Cyanine5 (right). Total cells were used for analysis.

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

Immunohistochemistry (Frozen) (2)

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

Flow Cytometry (95)

Frontiers in cellular and infection microbiology

CNS Immune Profiling in a Dengue Virus-Infected Immunocompetent Outbred ICR Mice Strain.

"Published figure using CD11c monoclonal antibody (Product # 15-0114-82) in Flow Cytometry"

Authors: Shen TJ, Chen CL, Jhan MK, Tseng PC, Lin CF

Species
Not Applicable

Dilution
Not Cited

Year
2021

Nature communications

CD103⁺ cDC1 and endogenous CD8⁺ T cells are necessary for improved CD40L-overexpressing CAR T cell antitumor function.

"Published figure using CD11c monoclonal antibody (Product # 15-0114-82) in Flow Cytometry"

Authors: Kuhn NF, Lopez AV, Li X, Cai W, Daniyan AF, Brentjens RJ

Species
Not Applicable

Dilution
Not Cited

Year
2020

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

More applications with references on thermofisher.com

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