

CD11c Monoclonal Antibody (N418), PE-Cyanine7, 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), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	PE-Cyanine7
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_469590

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	151 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 0.5 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 to photo-induced oxidation. Please protect this vial and stained samples from light.

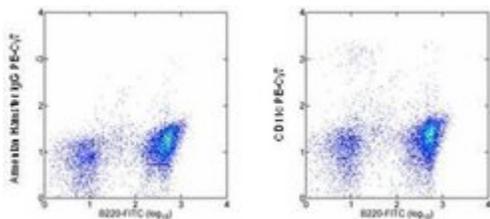
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step

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: 775 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD11c Monoclonal Antibody (N418), PE-Cyanine7, eBioscience™



CD11c Antibody (25-0114-82) in Flow

Staining of mouse splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.25 µg of Armenian Hamster IgG Isotype Control PE-Cyanine7 (Product # 25-4888-82) (left) or 0.25 µg of Anti-Mouse CD11c PE-Cyanine7 (right). Total viable cells were used for analysis.

Immunohistochemistry (1)

Magnetic resonance in medicine

Magnetic nanoparticles for imaging dendritic cells.

"25-0114 was used in Flow cytometry/Cell sorting to develop magnetic nanoparticles for imaging dendritic cells."

Authors: Kobukai S, Baheza R, Cobb JG, Virostko J, Xie J, Gillman A, Koktysh D, Kerns D, Does M, Gore JC, Pham W

Species
Mouse

Dilution
1:200

Year
2010

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 (151)

Frontiers in immunology

Relevance of PSGL-1 Expression in B Cell Development and Activation.

"25-0114 was used in Flow cytometry/Cell sorting to conclude that although the expression of PSGL-1 in mature B cells is low, the lack of PSGL-1 compromises normal B cell development and it may also play a role in the maturation and activation of peripheral naïve B cells."

Authors: González-Tajuelo R, González-Sánchez E, Silván J, Muñoz-Callejas A, Vicente-Rabaneda E, García-Pérez J, Castañeda S, Urzainqui A

Species
Mouse

Dilution
Not Cited

Year
2021

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

More applications with references on thermofisher.com

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