

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
Excitation/Emission Max	568/666 nm
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_468717

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	127 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.

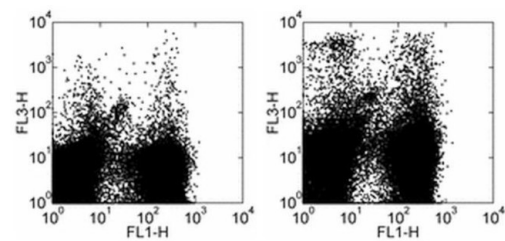
Light sensitivity: This tandem dye is sensitive photo-induced oxidation. Please protect this vial and stained samples from light.

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.

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Immunohistochemistry (Frozen) (2)

<p>The Journal of experimental medicine</p> <p>Essential roles of DC-derived IL-15 as a mediator of inflammatory responses in vivo.</p> <p>Authors: Ohteki T,Tada H,Ishida K,Sato T,Maki C,Yamada T,Hamuro J,Koyasu S</p>	<p>Year 2006</p>
<p>International immunology</p> <p>The existence of CD11c+ sentinel and F4/80+ interstitial dendritic cells in dental pulp and their dynamics and functional properties.</p> <p>Authors: Zhang J,Kawashima N,Suda H,Nakano Y,Takano Y,Azuma M</p>	<p>Year 2006</p>

Flow Cytometry (127)

<p>Cancer immunology research</p> <p>P. gingivalis Infection Upregulates PD-L1 Expression on Dendritic Cells, Suppresses CD8+ T-cell Responses, and Aggravates Oral Cancer.</p> <p>"Published figure using CD11c monoclonal antibody (Product # 15-0114-82) in Flow Cytometry"</p> <p>Authors: Ren J,Han X,Lohner H,Hoyle RG,Li J,Liang S,Wang H</p>	<p>Year 2023</p>
<p>International journal of molecular sciences</p> <p>Inhibition of Macrophage-Specific CHIT1 as an Approach to Treat Airway Remodeling in Severe Asthma.</p> <p>"Published figure using CD11c monoclonal antibody (Product # 15-0114-82) in Flow Cytometry"</p> <p>Authors: Sklepkiwicz P,Dymek B,Mlacki M,Zagozdzon A,Salamon M,Siwiska AM,Mazurkiewicz MP,de Souza Xavier Costa N,Mazur M,Mauad T,Gobiowski A,Dzwonek K,Gob J,Zasona Z</p>	<p>Year 2023</p>

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