CD11c Monoclonal Antibody (N418), PE-Cyanine7, 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-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 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_469590

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	181 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 10^5 to 10^8 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.

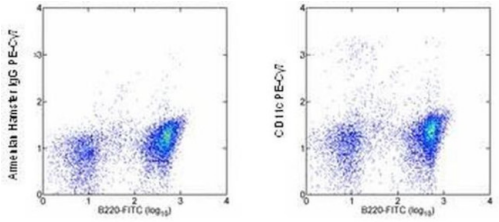
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-822-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) for up to 3 days in the dark at 4°C with minimal impact on

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.

184 References

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

Year
2010

Species
Mouse

Dilution
1:200

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

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

Year
2006

Flow Cytometry (181)

Frontiers in immunology

scDual-Seq of *Toxoplasma gondii*-infected mouse BMDCs reveals heterogeneity and differential infection dynamics.

"25-0114-82 was used in Flow Cytometry to provide a comprehensive resource for characterizing host-pathogen interplay at high-resolution."

Authors: Hildebrandt F,Mohammed M,Dziedziech A,Bhandage AK,Divne AM,Barrenäs F,Barragan A,Henriksson J, Ankarklev J

Year
2023

Species
Mouse

Dilution
1:200

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn