

CD11c Monoclonal Antibody (N418), APC-eFluor 780, 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), APC-eFluor 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	APC-eFluor® 780
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_1548652

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	46 Publications

Product Specific Information

Description: The N418 monoclonal antibody reacts with mouse CD11c, the integrin alphaX. CD11c non-covalently associates with beta2 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

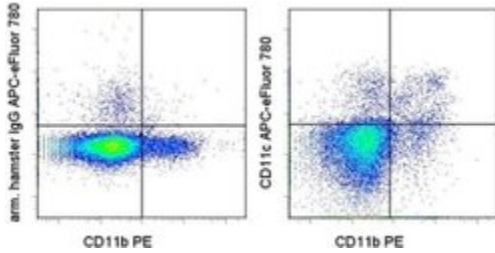
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 μ L cell sample + 100 μ L 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: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 μ m post-manufacturing filtered.

Product Images For CD11c Monoclonal Antibody (N418), APC-eFluor 780, eBioscience™



CD11c Antibody (47-0114-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Mouse CD11b PE (Product # 12-0112-82) and 0.25 μ g of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (left) or 0.25 μ g of Anti-Mouse CD11c APC-eFluor® 780 (right). Total viable cells were used for analysis.

Immunocytochemistry (2)

Nature medicine

Immune complexes stimulate CCR7-dependent dendritic cell migration to lymph nodes.

"47-0114 was used in Flow cytometry/Cell sorting to study how immune complexes stimulate CCR7-dependent dendritic cell migration to lymph nodes."

Authors: Clatworthy MR, Aronin CE, Mathews RJ, Morgan NY, Smith KG, Germain RN

Species
Mouse

Dilution
1:200

Year
2014

The Journal of experimental medicine

Zbtb46 expression distinguishes classical dendritic cells and their committed progenitors from other immune lineages.

"47-0114 was used in Immunofluorescence to identify Zbtb46 as a transcription factor selectively expressed by classical DCs and their committed progenitors."

Authors: Satpathy AT, KC W, Albring JC, Edelson BT, Kretzer NM, Bhattacharya D, Murphy TL, Murphy KM

Species
Mouse

Dilution
1:200

Year
2012

Flow Cytometry (46)

Nature communications

B7-CD28 co-stimulation modulates central tolerance via thymic clonal deletion and Treg generation through distinct mechanisms.

"47-0114 was used in Flow cytometry/Cell sorting to reveal a function of B7-CD28 co-stimulation in shaping the T cell repertoire and limiting autoimmunity through both thymic clonal deletion and Treg cell generation."

Authors: Watanabe M, Lu Y, Breen M, Hodes RJ

Species
Mouse

Dilution
1:200

Year
2020

Nature communications

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

"47-0114 was used in Flow cytometry/Cell sorting to demonstrate the stimulatory effect of CD40L-overexpressing CAR T cells on innate and adaptive immune cells, and provide a rationale for using CD40L-overexpressing CAR T cells to improve immunotherapy responses."

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

Species
Mouse

Dilution
Not Cited

Year
2020

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

More applications with references on thermofisher.com

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