

CD11c Monoclonal Antibody (N418), PE, 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, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	PE
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_465552

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	3 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	5 Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	206 Publications
ELISA (ELISA)	-	1 Publication
Functional Assay (FN)	-	1 Publication

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: The N418 antibody has been reported for use in flow cytometric analysis.

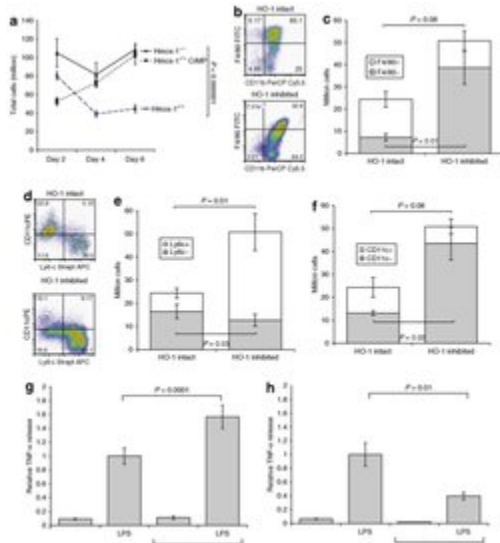
Applications Tested: The N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Excitation: 488-561 nm; Emission: 578 nm; Laser: Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

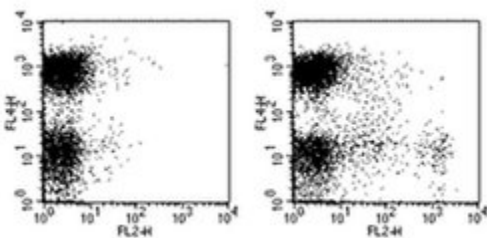
Advanced Verification Data



CD11c Antibody (12-0114-82)

Figure 6 The effect of HO-1 function upon macrophage differentiation in vitro . Suspension cultures of Hmox-1 +/+ , +/- , and -/- bone marrow-derived stem cells were grown in M-CSF conditioned medium for 6 days. Wild-type cells were grown in the presence or absence of the highly specific HO-1 inhibitor CrMP throughout their maturation. Hmox-1 -/- and wild-type HO-1 inhibited BMDMs were considerably (a) more numerous than control wild-type BMDMs. Flow cytometry demonstrated development of a large F4/80- population in (b , c) HO-1 inhibited cultures. (d) Dot plots indicated that Ly6c and CD11c markers were seen on mutually exclusive populations. Calculation of cell numbers demonstrated that HO-1 inhibition led to expansion of a large pro-inflammatory (e) Ly6c+ , (f) CD11c- population. LPS stimulus of BMDMs in vitro led to increased TNF-alpha production in conditions of (g) HO-1 inhibition and (h) decreased TNF-alpha secretion when HO-1 was induced. Cell treatment validation info.

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



CD11c Antibody (12-0114-82) in Flow

Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and 0.25 µg of Armenian Hamster IgG Isotype Control PE (Product # 12-4888-81) (left) or 0.25 µg of Anti-Mouse CD11c PE (right). Total viable cells were used for analysis.

View more figures on thermofisher.com

Immunohistochemistry (3)

Clinical and experimental immunology

IL-1-dependent electrophysiological changes and cardiac neural remodeling in a mouse model of Kawasaki disease vasculitis.

"12-0114 was used in Immunohistochemistry to show that these ECG changes are recapitulated in the Lactobacillus casei cell wall extract (LCWE)-induced KD vasculitis mouse model."

Authors: Abe M,Rastelli DD,Gomez AC,Cingolani E, Lee Y,Soni PR,Fishbein MC,Lehman TJA,Shimada K,Crother TR, Chen S,Noval Rivas M,Arditi M

Species
Mouse

Dilution
Not Cited

Year
2020

Journal of visualized experiments : JoVE

Precision-cut Mouse Lung Slices to Visualize Live Pulmonary Dendritic Cells.

"12-0114 was used in in vivo experiments to contribute to a comprehensive understanding of cellular events that underlie allergic and inflammatory diseases of the lung."

Authors: Lyons-Cohen MR,Thomas SY,Cook DN,Nakano H

Species
Mouse

Dilution
Not Cited

Year
2017

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

Immunohistochemistry (Frozen) (5)

JCI insight

Heterogeneous fibroblasts underlie age-dependent tertiary lymphoid tissues in the kidney.

"12-0114 was used in Immunofluorescence to show how the inhibition of tertiary lymphoid tissue may constitute a therapeutic approach for treating acute kidney injury in the elderly."

Authors: Sato Y,Mii A,Hamazaki Y,Fujita H,Nakata H,Masuda K,Nishiyama S,Shibuya S,Haga H,Ogawa O,Shimizu A, Narumiya S,Kaisho T,Arita M,Yanagisawa M,Miyasaka M,Sharma K,Minato N,Kawamoto H,Yanagita M

Species
Mouse

Dilution
Not Cited

Year
2016

Journal of immunology (Baltimore, Md. : 1950)

A TNF--CCL20-CCR6 axis regulates Nod1-induced B cell responses.

"12-0114 was used in Flow cytometry/Cell sorting to reveal a novel mechanism of B cells during inflammation and shed light on how B cells participate in innate immune responses to microbial stimulation."

Authors: Paradis M,Mindt BC,Duerr CU,Rojas OL,Ng D,Boulianne B,McCarthy DD,Yu MD,Summers deLuca LE,Ward LA,Waldron JB,Philpott DJ,Gommerman JL,Fritz JH

Species
Mouse

Dilution
Not Cited

Year
2014

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More applications with references on thermofisher.com

ICC/IF (3)

Flow (206)

ELISA (1)

FN (1)

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