CD11c Monoclonal Antibody (N418), Alexa Fluor 488, 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), Alexa Fluor 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	Alexa Fluor® 488
Form	Liquid
Concentration	0.5 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_469903

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	14 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	5 Publications
Immunocytochemistry (ICC/IF)	-	7 Publications
Flow Cytometry (Flow)	0.25 µg/test	87 Publications
Miscellaneous PubMed (Misc)	-	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: This N418 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining of frozen tissue sections.

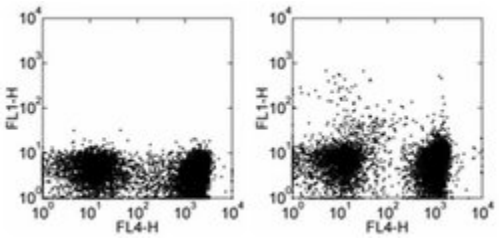
Applications Tested: This N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume

of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. This N418 antibody has been tested by immunohistochemistry of frozen mouse tissue and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD11c Monoclonal Antibody (N418), Alexa Fluor 488, eBioscience™



CD11c Antibody (53-0114-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) APC (Product # 17-0452-82) and staining buffer (autofluorescence) (left) or 0.125 µg of Anti-Mouse CD11c Alexa Fluor® 488 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

115 References

Western Blot (1)

Biochimica et biophysica acta

Antigen presenting cell abnormalities in the Cln3(-/-) mouse model of juvenile neuronal ceroid lipofuscinosis.

"Published figure using CD11c monoclonal antibody (Product # 53-0114-82) in Flow Cytometry"

Authors: Hersrud SL,Kovács AD,Pearce DA

Species
Mouse

Dilution
Not Cited

Year
2016

Immunohistochemistry (14)

EMBO molecular medicine

Glufosinate constrains synchronous and metachronous metastasis by promoting anti-tumor macrophages.

"Published figure using CD11c monoclonal antibody (Product # 53-0114-82) in Flow Cytometry"

Authors: Menga A,Serra M,Todisco S,Riera-Domingo C,Ammarah U,Ehling M,Palmieri EM,Di Noia MA,Gissi R,Favia M, Pierri CL,Porporato PE,Castegna A,Mazzone M

Species
Not Applicable

Dilution
Not Cited

Year
2020

Frontiers in immunology

Distribution and Interaction of Murine Pulmonary Phagocytes in the Naive and Allergic Lung.

"53-0114 was used in Immunohistochemistry to study the spatial distribution of lung phagocytes in the naive and allergic lung."

Authors: Hoffmann FM,Berger JL,Lingel I,Laumonnier Y,Lewkowich IP,Schmudde I,König P

Species
Mouse

Dilution
Not Cited

Year
2019

View more IHC references on thermofisher.com

Immunohistochemistry (Frozen) (5)

Cancer research

CCL2/CCR2-dependent recruitment of functional antigen-presenting cells into tumors upon chemotherapy.

"53-0114 was used in Flow cytometry/Cell sorting to underscore the importance of the CCL2/CCR2 signaling axis for therapeutic anticancer immune responses as elicited by immunogenic chemotherapy."

Authors: Ma Y,Mattarollo SR,Adjemian S,Yang H,Aymeric L,Hannani D,Portela Catani JP,Duret H,Teng MW,Kepp O, Wang Y,Sistigu A,Schultze JL,Stoll G,Galluzzi L,Zitvogel L,Smyth MJ,Kroemer G

Species
Mouse

Dilution
Not Cited

Year
2014

View more IHC (F) references on thermofisher.com

More applications with references on thermofisher.com

ICC/IF (7) Flow (87) Misc (1)