

# 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.

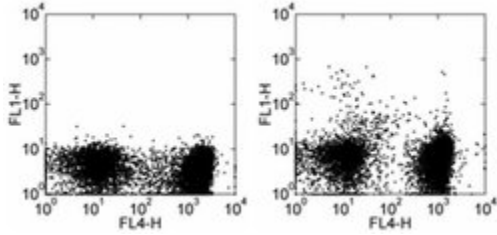
**Applications Tested:** This N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume

of 100  $\mu$ L. 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  $\mu$ g/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  $\mu$ m 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  $\mu$ g of Anti-Mouse CD11c Alexa Fluor® 488 (right). Cells in the lymphocyte gate were used for analysis.

[View more figures on thermofisher.com](https://www.thermofisher.com)

## 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

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## More applications with references on thermofisher.com

ICC/IF (7)

Flow (87)

Misc (1)

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