

# CD11c Monoclonal Antibody (N418), Alexa Fluor 700, 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 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	Alexa Fluor® 700
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_493992

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	12 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.25 µg/test	88 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.

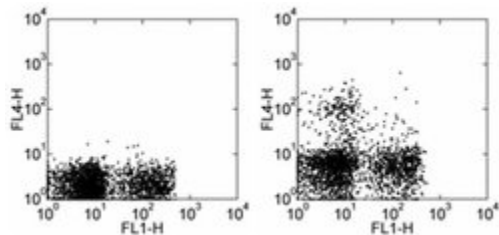
**Applications Tested:** This N418 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 723 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD11c Monoclonal Antibody (N418), Alexa Fluor 700, eBioscience™



### CD11c Antibody (56-0114-82) in Flow

Staining of BALB/c splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and staining buffer (autofluorescence) (left) or 0.125 µg of Anti-Mouse CD11c Alexa Fluor® 700 (right). Total viable cells were used for analysis.

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

## Immunohistochemistry (12)

EMBO molecular medicine

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

"Published figure using CD11c monoclonal antibody (Product # 56-0114-82) 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

International journal of molecular medicine

### Identification of different macrophage subpopulations with distinct activities in a mouse model of oxygen-induced retinopathy.

"Published figure using CD11c monoclonal antibody (Product # 56-0114-82) in Immunofluorescence"

Authors: Zhu Y, Zhang L, Lu Q, Gao Y, Cai Y, Sui A, Su T, Shen X, Xie B

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

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

## Immunohistochemistry (Frozen) (2)

The Journal of experimental medicine

### Essential roles of DC-derived IL-15 as a mediator of inflammatory responses in vivo.

"Published figure using CD11c monoclonal antibody (Product # 56-0114-82) in Immunohistochemistry"

Authors: Ohteki T, Tada H, Ishida K, Sato T, Maki C, Yamada T, Hamuro J, Koyasu S

**Species**  
Not Applicable

**Dilution**  
Not Cited

**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

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2006

## More applications with references on thermofisher.com

ICC/IF (5)

Flow (88)

Misc (1)

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