

# CD11c Monoclonal Antibody (N418), eFluor 615, 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), eFluor 615, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	N418
Conjugate	eFluor® 615
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_10853016

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Frozen) (IHC (F))	5 µg/mL	4 Publications
Immunocytochemistry (ICC/IF)	Assay-Dependent	4 Publications
Flow Cytometry (Flow)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

## Product Specific Information

**Description:** The N418 monoclonal antibody reacts with mouse CD11c, the integrin alpha X. CD11c non-covalently associates with beta 2 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 immunohistochemical staining of frozen tissue sections and immunocytochemistry.

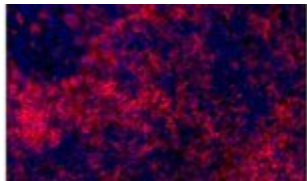
**Applications Tested:** This N418 antibody has been tested by immunohistochemistry on frozen mouse spleen (IHC-F) at less than or equal to 5 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest. This product has not been validated for flow cytometric analysis.

Filter Recommendation: When using this eFluor® 615 antibody conjugate, we recommend a filter that will capture the 615 emission wavelength. (for example, Excitation 560/55, 585LP, Emission 645/75). A standard Alexa Fluor® 594 filter is acceptable.

Excitation: 595 nm; Emission: 615 nm.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD11c Monoclonal Antibody (N418), eFluor 615, eBioscience™



### CD11c Antibody (42-0114-82) in IHC (F)

Immunohistochemistry on frozen mouse spleen using 5 µg/mL Anti-Mouse CD11c eFluor® 615. Nuclei are counterstained with DAPI.

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

## 23 References

### Immunohistochemistry (13)

EMBO molecular medicine

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

"Published figure using CD11c monoclonal antibody (Product # 42-0114-82) in Immunohistochemistry"

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 # 42-0114-82) 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) (4)

Journal for immunotherapy of cancer

#### Invariant natural killer T cells regulate anti-tumor immunity by controlling the population of dendritic cells in tumor and draining lymph nodes.

"42-0114 was used in Immunohistochemistry to demonstrate that iNKT cells limit priming of anti-tumor T-cells by controlling dendritic cells in tumors and draining lymph nodes."

Authors: Pilonas KA, Aryankalayil J, Babb JS, Demaria S

**Species**  
Mouse

**Dilution**  
1:100

**Year**  
2014

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 # 42-0114-82) 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

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

### More applications with references on thermofisher.com

[ICC/IF \(4\)](#)

[Flow \(1\)](#)

[Misc \(1\)](#)

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