

## Anti-Mouse CD11c Antibody, Clone N418



Scientists Helping Scientists™ | [WWW.STEMCELL.COM](http://WWW.STEMCELL.COM)

TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713

[INFO@STEMCELL.COM](mailto:INFO@STEMCELL.COM) • [TECHSUPPORT@STEMCELL.COM](mailto:TECHSUPPORT@STEMCELL.COM)

FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

## Antibodies

Hamster (Armenian) monoclonal IgG  
antibody against mouse CD11c,  
unconjugated

Catalog #60002

500 µg 0.5 mg/mL

## Product Description

The N418 antibody reacts with CD11c (αX integrin), a 150 kDa type 1 transmembrane glycoprotein that associates non-covalently with CD18 (β2 integrin) to form a heterodimeric cell surface adhesion receptor. Through its interaction with ligands such as iC3b, fibrinogen and CD54 the CD11c/CD18 receptor is involved in several immune response processes, including cell migration, stimulation of cytokine production by monocytes and macrophages, T cell proliferation, leukocyte recruitment and phagocytosis. In mice, CD11c is expressed on dendritic cells, macrophages, monocytes, granulocytes, NK cells and a subset of T cells.

Target Antigen Name:	CD11c
Alternative Names:	alphaX integrin, CR4, integrin alphaX chain, p150
Gene ID:	16411
Species Reactivity:	Mouse
Host Species:	Hamster (Armenian)
Clonality:	Monoclonal
Clone:	N418
Isotype:	IgG
Immunogen:	Mouse spleen dendritic cells
Conjugate:	Unconjugated

## Applications

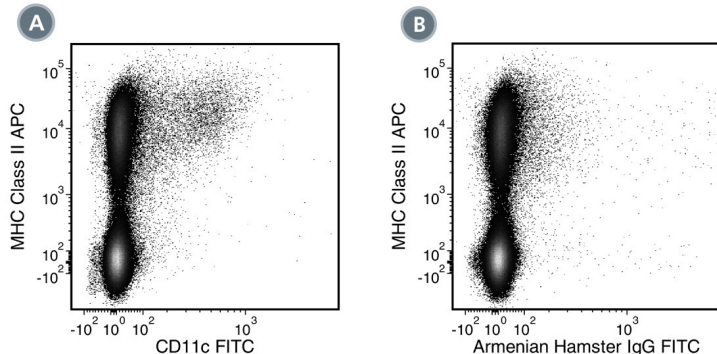
Verified:	CellSep, FC
Reported:	CyTOF®, FC, ICC, IF, IHC, IP
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD11c Positive Selection Kit II (Catalog #18780).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

## Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤ 1 µg per 1 × 10 <sup>6</sup> cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.

## Data



(A) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with Anti-Mouse CD11c Antibody, Clone N418, followed by anti-hamster (Armenian) IgG, FITC and anti-mouse MHC class II, APC.

(B) Flow cytometry analysis of C57BL/6 mouse splenocytes labeled with a hamster (Armenian) IgG, isotype control antibody followed by anti-hamster (Armenian) IgG, FITC and anti-mouse MHC class II, APC.

## Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at [www.stemcell.com/antibodies](http://www.stemcell.com/antibodies) or contact us at [techsupport@stemcell.com](mailto:techsupport@stemcell.com).

## References

1. Grewal JS et al. (2011) Salivary glands act as mucosal inductive sites via the formation of ectopic germinal centers after site-restricted MCMV infection. *FASEB J* 25(5): 1680–96. (IF, IHC)
2. Bankoti J et al. (2010) Effects of TCDD on the fate of naive dendritic cells. *Toxicol Sci* 115(2): 422–34. (FC)
3. Roland CL et al. (2009) Inhibition of vascular endothelial growth factor reduces angiogenesis and modulates immune cell infiltration of orthotopic breast cancer xenografts. *Mol Cancer Ther* 8(7): 1761–71. (FC, IHC)
4. You Y et al. (2009) Cutting edge: Primary and secondary effects of CD19 deficiency on cells of the marginal zone. *J Immunol* 182(12): 7343–7. (IF, IHC)
5. Cervantes-Barragan L et al. (2007) Control of coronavirus infection through plasmacytoid dendritic-cell-derived type I interferon. *Blood* 109(3): 1131–7. (FC)
6. Turnquist HR et al. (2007) Rapamycin-conditioned dendritic cells are poor stimulators of allogeneic CD4+ T cells, but enrich for antigen-specific Foxp3+ T regulatory cells and promote organ transplant tolerance. *J Immunol* 178(11): 7018–31. (FC)
7. Chin RK et al. (2006) Lymphotoxin pathway-directed, autoimmune regulator-independent central tolerance to arthritogenic collagen. *J Immunol* 177(1): 290–7. (IF, IHC)
8. Kishimoto T. (1998) *Leukocyte Typing VI. White Cell Differentiation Antigens*. T. Kishimoto, ed., New York: Garland Publishing Inc.
9. Barclay AN et al. (1997) *The Leucocyte Antigen FactsBook A*. Barclay, ed., New York: Academic Press.
10. Metlay JP et al. (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. *J Exp Med* 171(5): 1753–71. (FA/Blocking, FC, IHC, IP)

STEMCELL TECHNOLOGIES INC.'S QUALITY MANAGEMENT SYSTEM IS CERTIFIED TO ISO 13485. PRODUCTS ARE FOR RESEARCH USE ONLY AND NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES UNLESS OTHERWISE STATED.

Copyright © 2016 by STEMCELL Technologies Inc. All rights reserved including graphics and images. STEMCELL Technologies & Design, STEMCELL Shield Design, Scientists Helping Scientists and EasySep are trademarks of STEMCELL Technologies Inc. All other trademarks are the property of their respective holders. Alexa Fluor® is a registered trademark of Life Technologies Corporation. This product is licensed for internal research use only and its sale is expressly conditioned on the buyer not using it for manufacturing, performing a service, or medical test, or otherwise generating revenue. For use other than research, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or [outlicensing@lifetech.com](mailto:outlicensing@lifetech.com). While STEMCELL has made all reasonable efforts to ensure that the information provided by STEMCELL and its suppliers is correct, it makes no warranties or representations as to the accuracy or completeness of such information.