

## Anti-Mouse CD11c Antibody, Clone N418

## Antibodies

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



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Catalog #60002

500 µg 0.5 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

## Product Description

The N418 antibody reacts with CD11c ( $\alpha$ X integrin), a 150 kDa type 1 transmembrane glycoprotein that associates non-covalently with CD18 ( $\beta$ 2 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

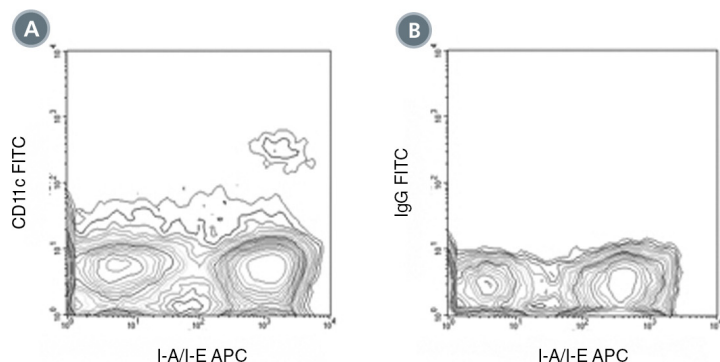
Verified:	CellSep, FC
Reported:	CyTOF®, FC, ICC, IF, IHC, IP
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD11c Positive Selection Kit (Catalog #18758) and EasySep™ Mouse CD11c Positive Selection Kit 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; 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 request a lot-specific Certificate of Analysis from <a href="mailto:techsupport@stemcell.com">techsupport@stemcell.com</a> .
Directions for Use:	For flow cytometry the suggested use of this antibody is $\leq 1.0$ µg per $1 \times 10^6$ 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 I-A/I-E, 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 I-A/I-E, APC.

## Related Products

PRODUCT NAME	CATALOG #	SIZE
Anti-Mouse CD11c Antibody, Clone N418	60002	500 µg
Anti-Mouse CD11c Antibody, Clone N418, PE	60002PE	200 µg
Anti-Mouse CD11c Antibody, Clone N418, PE	60002PE.1	50 µg
Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488	60002AD	100 µg
Anti-Mouse CD11c Antibody, Clone N418, Alexa Fluor® 488	60002AD.1	25 µg

## References

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4. Chin RK, et al. Lymphotoxin pathway-directed, autoimmune regulator-independent central tolerance to arthritogenic collagen. J Immunol 177(1): 290-97, 2006 (IF)
5. Cervantes-Barragan L, et al. Control of coronavirus infection through plasmacytoid dendritic-cell-derived type I interferon. Blood 109(3): 1131-37, 2007 (FC)
6. Turnquist HR, et al. 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, 2007 (FC)
7. Roland CL, et al. Inhibition of vascular endothelial growth factor reduces angiogenesis and modulates immune cell infiltration of orthotopic breast cancer xenografts. Mol Cancer Res 8(7): 1761-71, 2009 (IHC, FC)
8. You Y, et al. Cutting edge: Primary and secondary effects of CD19 deficiency on cells of the marginal zone. J Immunol 182(12): 7343-47, 2009 (IF)
9. Bankoti J, et al. Effects of TCDD on the fate of naive dendritic cells. Toxicol Sci 115(2): 422-34, 2010 (FC)
10. Eisenach PA, et al. MT1-MMP regulates VEGF-A expression through a complex with VEGFR-2 and Src. J Cell Sci 123(23): 4182-93, 2010

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