

# Datasheet: MCA1369F BATCH NUMBER 157912

Description:	HAMSTER ANTI MOUSE CD11c:FITC		
Specificity:	CD11c		
Other names:	INTEGRIN ALPHA X CHAIN		
Format:	FITC		
<b>Product Type:</b>	Monoclonal Antibody		
Clone:	N418		
Isotype:	IgG		
Quantity:	0.1 mg		

## **Product Details**

#### **Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				1/100

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Product Form	Purified IgG conju	gated to Fluorescein Isoth	niocyanate Isomer 1
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	FITC	490	525
Preparation	Purified IgG prepa	ared by affinity chromatogi	raphy on Protein A f
Buffer Solution	Phosphate buffere	ed saline	
Preservative Stabilisers	0.09% Sodium Az 1% Bovine Ser	ide rum Albumin	

#### Concentrations

Immunogen	Mouse spleen dendritic cells.
External Database	
Links	UniProt:
	Q9QXH4 Related reagents
	Entrez Gene:
	16411 Itgax Related reagents
RRID	AB_324141
Fusion Partners	Spleen cells from immunised Armenian Hamster were fused with cells of the Sp2/0 myeloma cell line.
Specificity	Hamster anti Mouse CD11c antibody, clone N418 recognizes the murine homolog of human CD11c, also known as Integrin Alpha X, a 150/90 kDa member of the beta 2 integrin family. In mice, CD11c is primarily expressed by dendritic cells.
	Hamster anti Mouse CD11c antibody, clone N418 has been reported to enhance antigen specific responses when used to target dendritic cells <i>in vivo</i> (Wang <i>et al.</i> 2000).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
	The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors. This may be reduced by using SeroBlock FcR ( <u>BUF041A/B</u> ).
References	1. Crowley, M.T. et al. (1990) Use of the fluorescence activated cell sorter to enrich
	dendritic cells from mouse spleen. <u>J Immunol Methods. 133 (1): 55-66.</u>
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	3. Wang, H. <i>et al.</i> (2000) Rapid antibody responses by low-dose, single-step, dendritic
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	escalates relapsing fever borreliosis. <u>Infect Immun. 78 (5): 1924-30.</u>
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	6. Goupil, M. <i>et al.</i> (2009) Macrophage-mediated responses to Candida albicans in mice
	expressing the human immunodeficiency virus type 1 transgene. Infect Immun. 77:
	4136-49.
	7. Linehan, S.A (2005) The mannose receptor is expressed by subsets of APC in
	non-lymphoid organs. <u>BMC Immunol. 6:4.</u>
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	5. Specially 1. (2001) Bending cond expected to herped diriplex virus in vivo do not produce

IFN-alpha after rechallenge with virus in vitro and exhibit decreased T cell alloreactivity.  $\underline{\mathsf{J}}$ 

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myoblasts, and endothelial cells in mediating an immune response against a transgene product. J Virol. 76: 2899-911.

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- 16. Nunez, R. *et al.* (1999) Immortalized cell lines derived from mice lacking both type I and type II IFN receptors unify some functions of immature and mature dendritic cells. Immunol Cell Biol. 77: 153-63.
- 17. Ponce, L.V. *et al.* (2005) Adoptive transfer of dendritic cells modulates immunogenesis and tolerogenesis in a neonatal model of murine cutaneous leishmaniasis. <u>Kinetoplastid Biol Dis. 4: 2.</u>
- 18. Zhang, L. *et al.* (2011) The inflammatory changes of adipose tissue in late pregnant mice. J Mol Endocrinol. 47 (2): 157-65.
- 19. Donaldson, D.S. *et al.* (2012) M cell-depletion blocks oral prion disease pathogenesis. <u>Mucosal Immunol. 5: 216-25.</u>
- 20. Wada, T. *et al.* (2013) Eplerenone ameliorates the phenotypes of metabolic syndrome with NASH in liver-specific SREBP-1c Tg mice fed high-fat and high-fructose diet. <u>Am J Physiol Endocrinol Metab.</u> 305 (11): E1415-25.
- 21. Kan, M.J. *et al.* (2015) Arginine deprivation and immune suppression in a mouse model of Alzheimer's disease. <u>J Neurosci. 35 (15): 5969-82.</u>
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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1369F">https://www.bio-rad-antibodies.com/SDS/MCA1369F</a> 10041
Regulatory	For research purposes only

### Related Products

## **Recommended Negative Controls**

#### HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:FITC (MCA2356F)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M365222:200529'

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