

# Datasheet: MCA1369P750T

Description:	HAMSTER ANTI MOUSE CD11c:RPE-Alexa Fluor® 750		
Specificity:	CD11c		
Other names:	INTEGRIN ALPHA X CHAIN		
Format:	RPE-ALEXA FLUOR® 750		
Product Type:	Monoclonal Antibody		
Clone:	N418		
Isotype:	lgG		
Quantity:	25 TESTS		

## **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 <u>www.bio-rad-antibodies.com/protocols</u> .						
	Flow Cytometry	Yes	No	Not Determined	Suggested Dilution Neat - 1/10		
	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.						
Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - Alexa Fluor® 750 - lyophilized						
Reconstitution	Reconstitute in 0.25 ml disilled water						
Max Ex/Em	Fluorophore	Excitation Max (n	ım) Emis	sion Max (nm)			
	RPE-Alexa Fluor®750 488nm laser	496		779			
	RPE-Alexa Fluor®750 561nm laser	546		779			
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide						
Stabilisers	1% Bovine Serum Albumin						
	5% Sucrose						
Immunogen	Mouse spleen dendrit	ic cells.					

UniProt: <u>Q9QXH4</u> <u>Related reagents</u>			
Entrez Gene: <u>16411</u> Itgax <u>Related reagents</u>			
Spleen cells from immunised Armenian Hamster were fused with cells of the Sp2/0 myeloma cell line.			
<b>Hamster anti Mouse CD11c antibody, clone N418</b> 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> ( <u>Wang <i>et al.</i> 2000</u> ).			
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> ).			
<ol> <li>Crowley, M.T. <i>et al.</i> (1990) Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. <u>J Immunol Methods. 133 (1): 55-66.</u></li> <li>Metlay, J.P. <i>et al.</i> (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. <u>J Exp Med. 171 (5): 1753-71.</u></li> <li>Wang, H. <i>et al.</i> (2000) Rapid antibody responses by low-dose, single-step, dendritic cell-targeted immunization. <u>Proc Natl Acad Sci U S A. 97 (2): 847-52.</u></li> <li>Lundqvist, J. <i>et al.</i> (2010) Concomitant infection decreases the malaria burden but escalates relapsing fever borreliosis. <u>Infect Immun. 78 (5): 1924-30.</u></li> <li>Beyer, M. <i>et al.</i> (2005) The beta2 integrin CD11c distinguishes a subset of cytotoxic pulmonary T cells with potent antiviral effects in vitro and in vivo. <u>Respir Res. 6: 70.</u></li> <li>Goupil, M. <i>et al.</i> (2009) Macrophage-mediated responses to Candida albicans in mice expressing the human immunodeficiency virus type 1 transgene. <u>Infect Immun. 77: 4136-49.</u></li> <li>Linehan, S.A (2005) The mannose receptor is expressed by subsets of APC in non-lymphoid organs. <u>BMC Immunol. 6:4.</u></li> <li>Bjorck, P. (2004) Dendritic cells exposed to herpes simplex virus <i>in vivo</i> do not produce IFN-alpha after rechallenge with virus <i>in vitro</i> and exhibit decreased T cell alloreactivity. <u>J Immunol. 172: 5396-404.</u></li> <li>Dahlen, E. <i>et al.</i> (1998) Dendritic cells and macrophages are the first and major producers of TNF-alpha in pancreatic islets in the nonobese diabetic mouse. <u>J Immunol. 160: 3585-93.</u></li> <li>de Jersey, J. <i>et al.</i> (2002) Activation of CD8 T cells by antigen expressed in the pituitary gland. J Immunol. 169: 6753-9.</li> <li>Dimier-Poisson, I. <i>et al.</i> (2003) Protective mucosal Th2 immune response against Toxoplasma gondii by murine mesenteric lymph node dendritic cells. <u>Infect Immun. 71: 5254-65.</u></li> <li>Gonzalez-Juarrero, M. and Orme, I.M. (2001) Characterization of</li></ol>			

	<u>Virol. 76: 2899-911.</u>
	16. Moos, M.P. et al. (2005) The lamina adventitia is the major site of immune cell accumulation in
	standard chow-fed apolipoprotein E-deficient mice Arterioscler Thromb Vasc Biol. 25: 2386-91.
	17. 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:
	<u>153-63.</u>
	18. Ponce, L.V. et al. (2005) Adoptive transfer of dendritic cells modulates immunogenesis and
	tolerogenesis in a neonatal model of murine cutaneous leishmaniasis. Kinetoplastid Biol Dis. 4: 2.
	19. Zhang, L. et al. (2011) The inflammatory changes of adipose tissue in late pregnant mice. J Mol
	Endocrinol. 47 (2): 157-65.
	20. Donaldson, D.S. et al. (2012) M cell-depletion blocks oral prion disease pathogenesis. Mucosal
	Immunol. 5: 216-25.
	21. 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. Am J Physiol
	Endocrinol Metab. 305 (11): E1415-25.
	22. Kayser, B.D. <i>et al.</i> (2015) Perinatal Overnutrition Exacerbates Adipose Tissue Inflammation
	Caused by High-Fat Feeding in C57BL/6J Mice. PLoS One. 10 (3): e0121954.
	23. Kan, M.J. <i>et al.</i> (2015) Arginine deprivation and immune suppression in a mouse model of
	Alzheimer's disease. J Neurosci. 35 (15): 5969-82.
	24. Sehgal, A. <i>et al.</i> (2016) c-Rel is dispensable for the differentiation and functional maturation of
	M cells in the follicle-associated epithelium. Immunobiology. pii: S0171-2985(16)30369-2. [Epub
	ahead of print]
	25. Wang, C.Y. <i>et al.</i> (2018) SMCHD1 Merges Chromosome Compartments and Assists Formation
	of Super-Structures on the Inactive X. Cell. May 28 [Epub ahead of print].
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Storage	DO NOT FREEZE.
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# **Related Products**

### **Recommended Useful Reagents**

MOUSE SEROBLOCK FcR (BUF041A)

#### MOUSE SEROBLOCK FcR (BUF041B)

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
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-rad.com		Email: antibody_sales_de@bio-rad.com

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