

Datasheet: MCA1369A647T

Description:	HAMSTER ANTI MOUSE CD11c:Alexa Fluor® 647
Specificity:	CD11c
Other names:	INTEGRIN ALPHA X CHAIN
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	N418
lsotype:	lgG
Quantity:	25 TESTS/0.25ml

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 www.bio-rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry 1/10 - 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.						
Target Species	Mouse						
Product Form	Purified IgG conjugated to Alexa Fluor® 647- liquid						
Max Ex/Em	Fluorophore	Excitation Max (nm) Emis	sion Max (nm)			
	Alexa Fluor®647	650	•	665			
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						
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml						
Immunogen	Mouse spleen dendritic cells.						
External Database Links	UniProt: <u>Q9QXH4</u> <u>Rela</u>	ted reagents					

Entrez Gene:

16411 Itgax Related reagents

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> (<u>Wang <i>et al.</i> 2000</u>).
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ 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	 Crowley, M.T. <i>et al.</i> (1990) Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. JImmunol Methods. 133 (1): 55-66. Metlay, J.P. <i>et al.</i> (1990) The distinct leukocyte integrins of mouse spleen dendritic cells as identified with new hamster monoclonal antibodies. J Exp Med. 171 (5): 1753-71. Wang, H. <i>et al.</i> (2000) Rapid antibody responses by low-dose, single-step, dendritic cell-targeted immunization. Proc Natl Acad Sci U S A. 97 (2): 847-52. Lundqvist, J. <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> 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> Goupil, M. <i>et al.</i> (2005) The mannose receptor is expressed by subsets of APC in non-lymphoid organs. <u>BMC Immunol. 6:4.</u> 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. J Immunol. 172: 5396-404. 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. J Immunol. 160: 3585-93. 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. Dimier-Poisson, I. <i>et al.</i> (2003) Protective mucosal Th2 immune response against Toxoplasma gondii by murine mesenteric lymph node dendritic cells. Infect Immun. 71: 5254-65. Gonzalez-Juarrero, M. and Orme, I.M. (2001) Characterization of murine lung dendritic cells infected with <i>Mycobacterium tuberculosis</i>. Infect Immun. 168: 57-64. Mercier, S. <i>et al.</i> (2002) Identification of multiple isola

	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. <i>et al.</i> (2012) M cell-depletion blocks oral prion disease pathogenesis. <u>Mucosal</u>
	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. <u>PLoS One. 10 (3): e0121954.</u>
	23. Kan, M.J. <i>et al.</i> (2015) Arginine deprivation and immune suppression in a mouse model of
	Alzheimer's disease. <u>J Neurosci. 35 (15): 5969-82.</u>
	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. <u>Immunobiology. pii: S0171-2985(16)30369-2. [Epub</u>
	ahead of print]
	25. Wang, C.Y. et al. (2018) SMCHD1 Merges Chromosome Compartments and Assists Formation
	of Super-Structures on the Inactive X. <u>Cell. May 28 [Epub ahead of print].</u>
Storage	Store at +4°C or at -20°C if preferred.
	This product should be stored undiluted
	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.
Shelf Life	18 months from date of despatch.
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation.
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	research, excluding contract research or any fee for service research, and the buyer must not sell
	or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic
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Health And Safety	Material Safety Datasheet documentation #10041 available at:
Information	10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A) MOUSE SEROBLOCK FcR (BUF041B)

 North & South
 Tel: +1 800 265 7376
 Worldwide

 America
 Fax: +1 919 878 3751
 Email: antibody_sales_us@bio-rad.com

 Tel: +44 (0)1865 852 700
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