

# Datasheet: MCA1369SBV570 BATCH NUMBER 100008293

Description:	HAMSTER ANTI MOUSE CD11c:StarBright Violet 570
Specificity:	CD11c
Other names:	INTEGRIN ALPHA X CHAIN
Format:	StarBright Violet 570
Product Type:	Monoclonal Antibody
Clone:	N418
lsotype:	lgG
Quantity:	100 TESTS/0.5ml

## **Product Details**

Applications	This product has been derived from testing w communications from information. For gener rad-antibodies.com/pro	This product has been reported to work in the following applications. This information is erived 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-</u>					
		Yes N	Not Determine	d Suggested Dilution			
	Flow Cytometry	-		Neat			
	Where this product ha necessarily exclude its a guide only. It is reco system using appropri	s not been tested s use in such pro- mmended that th ate negative/posi	I for use in a particular cedures. Suggested we e user titrates the prod tive controls.	technique this does not orking dilutions are given as luct for use in their own			
Target Species	Mouse						
Product Form	Purified IgG conjugate	ed to StarBright V	iolet 570 - liquid				
Max Ex/Em	Fluorophore	Excitation Max (	nm) Emission Max (nr	n)			
	StarBright Violet 570	404	571				
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative	0.09% Sodium Azide (NaN <sub>3</sub> )						
Stabilisers	1% Bovine Serum Albumin						
	0.1% Pluronic F68						
	0.1% PEG 3350						

0.05% Tween 20

Immunogen	Mouse spleen dendritic cells.
External Database Links	UniProt:         Q9QXH4       Related reagents         Entrez Gene:         16411       Itgax       Related reagents
Fusion Partners	Spleen cells from immunized Armenian Hamster were fused with cells of the Sp2/0 myeloma cell line.
Specificity	<ul> <li>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.</li> <li>Hamster anti Mouse CD11c antibody, clone N418 has been reported to enhance antigen apositio reported to the terrest dendritic cells in vive (Wang et al. 2000).</li> </ul>
Flow Cytometry	Use 5µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl. Best practices
	suggest a 5 minutes centrifugation at 6,000g prior to sample application.
References	<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>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>Nunez, R. <i>et al.</i> (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. <u>Immunol Cell Biol. 77: 153-63.</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>Gonzalez-Juarrero, M. and Orme, I.M. (2001) Characterization of murine lung dendritic cells infected with <i>Mycobacterium tuberculosis</i>. <u>Infect Immun. 69: 1127-33.</u></li> <li>de Jersey, J. <i>et al.</i> (2002) Activation of CD8 T cells by antigen expressed in the pituitary gland. <u>J Immunol. 169: 6753-9.</u></li> <li>Hamada, H. <i>et al.</i> (2002) Identification of multiple isolated lymphoid follicles on the antimesenteric wall of the mouse small intestine. <u>J Immunol. 168: 57-64.</u></li> <li>Mercier, S. <i>et al.</i> (2002) Distinct roles of adenovirus vector-transduced dendritic cells, myoblasts, and endothelial cells in mediating an immune response against a transgene product. <u>J Virol. 76: 2899-911.</u></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>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</li> </ol>

alloreactivity. J Immunol. 172: 5396-404.

Beyer, M. *et al.* (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>
 Linehan, S.A.. (2005) The mannose receptor is expressed by subsets of APC in non-lymphoid organs. <u>BMC Immunol. 6:4.</u>

13. 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 <u>Arterioscler Thromb</u> <u>Vasc Biol. 25: 2386-91.</u>

14. 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</u> <u>Biol Dis. 4: 2.</u>

 Meng, Q. *et al.* (2007) Phenotypes, distribution, and morphological features of antigenpresenting cells in the murine cornea following intravitreal injection. <u>Mol Vis. 13: 475-86.</u>
 Goupil, M. *et al.* (2009) Macrophage-mediated responses to Candida albicans in mice expressing the human immunodeficiency virus type 1 transgene. <u>Infect Immun. 77:</u> 4136-49.

17. Lundqvist, J. *et al.* (2010) Concomitant infection decreases the malaria burden but escalates relapsing fever borreliosis. <u>Infect Immun. 78 (5): 1924-30.</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</u> <u>Physiol Endocrinol Metab. 305 (11): E1415-25.</u>

21. Kan, M.J. *et al.* (2015) Arginine deprivation and immune suppression in a mouse model of Alzheimer's disease. J Neurosci. 35 (15): 5969-82.

22. Kayser, B.D. *et al.* (2015) Perinatal Overnutrition Exacerbates Adipose Tissue Inflammation Caused by High-Fat Feeding in C57BL/6J Mice. <u>PLoS One. 10 (3)</u>: <u>e0121954.</u>

23. Powell, J.J. *et al.* (2015) An endogenous nanomineral chaperones luminal antigen and peptidoglycan to intestinal immune cells. <u>Nat Nanotechnol. 10 (4): 361-9.</u>

24. Sehgal, A. *et al.* (2017) c-Rel is dispensable for the differentiation and functional maturation of M cells in the follicle-associated epithelium. <u>Immunobiology. 222 (2): 316-26.</u>
25. Curina, G. *et al.* (2018) Evaluation of immune responses in mice and sheep inoculated with a live attenuated Brucella melitensis REV1 vaccine produced in bioreactor. <u>Vet Immunol Immunopathol. 198: 44-53.</u>

26. Bender, L.H. *et al.* (2020) Intratumoral Administration of a Novel Cytotoxic Formulation with Strong Tissue Dispersive Properties Regresses Tumor Growth and Elicits Systemic Adaptive Immunity in *In Vivo* Models. <u>Int J Mol Sci. 21 (12): 4493.</u>

27. lida, Y. *et al.* (2020) Local injection of CCL19-expressing mesenchymal stem cells augments the therapeutic efficacy of anti-PD-L1 antibody by promoting infiltration of immune cells. <u>J Immunother Cancer. 8 (2): e000582.</u>

Kouwenberg, M. *et al.* (2021) Reduced CXCL1 production by endogenous IL-37 expressing dendritic cells does not affect T cell activation. <u>PLoS One. 16 (5): e0251809.</u>
 Mohanta, S.K. *et al.* (2022) Neuroimmune cardiovascular interfaces control atherosclerosis. <u>Nature. 605 (7908): 152-159.</u>

## **Related Products**

### **Recommended Useful Reagents**

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

North & South	Tel: +1 800 265 7376 World	dwide	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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M426127:231121'

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