

Datasheet: MCA1369PE

### **BATCH NUMBER 1802**

Description:	HAMSTER ANTI MOUSE CD11c:RPE
Specificity:	CD11c
Other names:	INTEGRIN ALPHA X CHAIN
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	N418
Isotype:	IgG
Quantity:	100 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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	-			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 conjuga	ated to R. Phycoerythrin	(RPE) - lyophilized	
Reconstitution	Reconstitute with 1.	0 ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)	)
	RPE 488nm laser	496	578	
Preparation	Purified IgG prepare supernatant	ed by affinity chromatog	raphy on Protein A f	rom tissue culture
Buffer Solution	Phosphate buffered	saline		
Preservative	0.09% Sodium Azid	e		
Stabilisers	1% Bovine Serui	m Albumin		

	5% Sucrose
Immunogen	Mouse spleen dendritic cells.
External Database Links	UniProt:  Q9QXH4 Related reagents  Entrez Gene:  16411 Itgax Related reagents
RRID	AB_324808
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	<ol> <li>Crowley, M.T. <i>et al.</i> (1990) Use of the fluorescence activated cell sorter to enrich dendritic cells from mouse spleen. J Immunol Methods. 133 (1): 55-66.</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. J Immunol. 160: 3585-93.</li> <li>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.</li> <li>Lundqvist, J. <i>et al.</i> (2010) Concomitant infection decreases the malaria burden but escalates relapsing fever borreliosis. Infect Immun. 78 (5): 1924-30.</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. Respir Res. 6: 70.</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. Infect Immun. 77:</li> </ol>

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Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.
	DO NOT FREEZE.
	This product should be stored undiluted. This product is photosensitive and should be protected from light. 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 #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1369PE">https://www.bio-rad-antibodies.com/SDS/MCA1369PE</a> 20487
Regulatory	For research purposes only

# **Related Products**

# **Recommended Negative Controls**

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:RPE (MCA2356PE)

## **Recommended Useful Reagents**

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

North & South Tel: +1 800 265 7376 America

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Fax: +1 919 878 3751

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 'M375316:210104'

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