

Datasheet: MCA1959PE BATCH NUMBER 163983

Description:	MOUSE ANTI RAT CD200 RECEPTOR 1:RPE
Specificity:	CD200 RECEPTOR 1
Other names:	OX2 RECEPTOR 1
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-102
Isotype:	lgG1
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 <u>www.bio-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry				Neat - 1/10		
	Where this product 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 product for use in their own system using appropriate negative/positive controls.						
Target Species	Rat						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized						
Reconstitution	Reconstitute with 1ml distilled water						
Max Ex/Em	Fluorophore	Excitation N	lax (nm)	Emission Max (nm)			
	RPE 488nm laser	496		578			
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% sodium azide (N 1% bovine serum albur	0,					

	5% sucrose
Immunogen	Membrane fraction of thioglycollate-elicited rat peripheral cells.
External Database Links	UniProt: <u>Q9ES58</u> <u>Related reagents</u> Entrez Gene: <u>64357</u> Cd200r1 <u>Related reagents</u>
Synonyms	Mox2r, Ox2r
RRID	AB_2074189
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102 recognizes the rat OX2 (CD200) receptor 1. This antigen is a heavily glycosylated ~60-100 kDa cell surface molecule expressed by cells of the myeloid lineage but not by T or B lymphocytes. Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102 has been shown to block the
	interaction of OX2 receptor 1 with CD200 (Bushell et al. 2008).
Flow Cytometry	Use 10μ I of the suggested working dilution to label 10^6 cells in 100μ I
References	 Wright, G.J. <i>et al.</i> (2000) Lymphoid/neuronal cell surface OX2 glycoprotein recognizes a novel receptor on macrophages implicated in the control of their function. <u>Immunity. 13 (2)</u>: 233-42. Nathan, C. & Muller, W.A. (2001) Putting the brakes on innate immunity: a regulatory role for CD200? <u>Nat Immunol. 2 (1): 17-9.</u> Dick, A.D. <i>et al.</i> (2001) Distribution of OX2 antigen and OX2 receptor within retina. <u>Invest Ophthalmol Vis Sci. 42 (1): 170-6.</u> Banerjee, D. & Dick, A.D. (2004) Blocking CD200-CD200 receptor axis augments NOS-2 expression and aggravates experimental autoimmune uveoretinitis in Lewis rats. <u>Ocul Immunol Inflamm. 12 (2): 115-25.</u> Meuth, S.G. <i>et al.</i> (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. <u>J Neuroimmunol. 194 (1-2): 62-9.</u> Matsumoto, S. <i>et al.</i> (2015) CD200+ and CD200- macrophages accumulated in ischemic lesions of rat brain: the two populations cannot be classified as either M1 or M2 macrophages. <u>J Neuroimmunol. 282: 7-20.</u> Chang, J.C. <i>et al.</i> (2019) Early Immune Response to Acute Gastric Fluid Aspiration in a Rat Model of Lung Transplantation. <u>Exp Clin Transplant. 17 (1): 84-92.</u> Nicholls, S.M. <i>et al.</i> (2015) Local targeting of the CD200-CD200R axis does not promote corneal graft survival. <u>Exp Eye Res. 130: 1-8.</u> Xie, X. <i>et al.</i> (2017) Monocytes, microglia and CD200-CD200R1 signaling are essential

	in the transmission of inflammation from the periphery to the central nervous system. <u>J</u> <u>Neurochem. Feb 6. [Epub ahead of print]</u>		
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: https://www.bio-rad-antibodies.com/SDS/MCA1959PE 20487		
Regulatory	For research purposes only		

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:RPE (MCA1209PE)

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-ra	id.com	Email: antibody_sales_uk@bio-ra	d.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 'M412327:221110'

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