Datasheet: MCA44GA BATCH NUMBER 1013

Description:	MOUSE ANTI RAT CD200
Specificity:	CD200
Other names:	OX2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-2
lsotype:	lgG1
Quantity:	0.1 mg

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>.

	ŀ	Yes	No	Not Determined	Suggested Dilution
	Flow Cytometry	-			1/50 - 1/100
	Immunohistology - Frozen	-			
	Immunohistology - Paraffin			•	
	ELISA			•	
	Immunoprecipitation	-			
	Western Blotting			•	
	Immunofluorescence	-			
	Immuno-electron Microscopy	-			
	necessarily exclude its u a guide only. It is recomn system using appropriate	nended th	nat the us	ser titrates the antibody	
Target Species	Rat				
Product Form	Purified IgG - liquid				
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant				
Buffer Solution	Phosphate buffered salin	ie			

Preservative Stabilisers	0.09% Sodium Azide		
Carrier Free	Yes		
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml		
Immunogen	Rat thymocyte membrane glycoproteins.		
External Database Links	UniProt: P04218 Related reagents Entrez Gene: 24560 Cd200 Related reagents		
Synonyms	Mox2		
RRID	AB_2073959		
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.		
Specificity	Mouse anti Rat CD200 antibody, clone OX-2 recognizes the rat CD200 cell surface antigen, also known as OX-2, a type I membrane glycoprotein, expressed on rat thymocytes, neurons, follicular dendritic cells, endothelium and at low levels on some B cells and smooth muscle cells.		
	Studies have indicated that the CD200-CD200 ligand system is important in the control o macrophage and granulocyte activation and that this antibody blocks OX-2 mediated T cell costimulation (<u>Ko <i>et al.</i> 2009</u>).		
	This product is routinely tested by flow cytometry on rat thymocytes.		
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.		
References	 Barclay, A.N. (1981) Different reticular elements in rat lymphoid tissue identified by localization of Ia, Thy-1 and MRC OX 2 antigens. <u>Immunology. 44 (4): 727-36.</u> Webb, M. & Barclay, A.N. (1984) Localisation of the MRC OX-2 glycoprotein on the surfaces of neurones. <u>J Neurochem. 43 (4): 1061-7.</u> Matsumoto, H. <i>et al.</i> (2007) Expression of CD200 by macrophage-like cells in ischemic core of rat brain after transient middle cerebral artery occlusion. <u>Neurosci Lett. 418: 44-8.</u> Borriello, F. <i>et al.</i> (1997) MRC OX-2 defines a novel T cell costimulatory pathway. J <u>Immunol. 158 (10): 4548-54.</u> Dick, A.D. <i>et al.</i> (2001) Distribution of OX2 antigen and OX2 receptor within retina. <u>Invest Ophthalmol Vis Sci. 42: 170-6.</u> Ko, Y.C. <i>et al.</i> (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. <u>J Anat. 214: 183-95.</u> 		

	 Preston, S. <i>et al.</i> (1997) The leukocyte/neuron cell surface antigen OX2 binds to a ligand on macrophages. <u>Eur J Immunol. 27: 1911-8.</u> Bartolome, M.V. <i>et al.</i> (2002) Transitional expression of OX-2 and GAP-43 glycoproteins in developing rat cochlear nerve fibers. <u>Histol Histopathol. 17: 83-95.</u> Tsai, M.H. <i>et al.</i> (2015) CD200 in growing rat lungs: developmental expression and control by dexamethasone. <u>Cell Tissue Res. 359 (3): 729-42.</u>
Further Reading	1. Clark, M.J. <i>et al.</i> (1985) MRC OX-2 antigen: a lymphoid/neuronal membrane glycoprotein with a structure like a single immunoglobulin light chain. <u>EMBO J. 4 (1):</u> <u>113-8.</u>
Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA44GA 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>
Goat Anti Mouse IgG (STAR76)	RPE
Rabbit Anti Mouse IgG (STAR13)	HRP
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>
Goat Anti Mouse IgG (H/L) (STAR117)	Alk. Phos., DyLight®488, DyLight®550,
	DyLight®650, DyLight®680, DyLight®800,
	FITC, HRP
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>
Goat Anti Mouse IgG (STAR77)	HRP
Goat Anti Mouse IgG (Fc) (STAR120)	FITC, HRP
Recommended Negative Controls	

MOUSE IgG1 NEGATIVE CONTROL (MCA1209)

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-r	ad.com	Email: antibody_sales_uk@bio-r	ad.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 'M367704:200529'

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