

Datasheet: MCA44GA

Description:	MOUSE ANTI RAT CD200
Specificity:	CD200
Other names:	OX2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-2
Isotype:	IgG1
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 www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/50 - 1/100
Immunohistology - Frozen	■			
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	
Immunofluorescence	■			
Immuno-electron Microscopy	■			

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	Rat
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
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
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 of macrophage and granulocyte activation and that this antibody blocks OX-2 mediated T cell costimulation (Ko et al. 2009). 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	1. Barclay, A.N. (1981) Different reticular elements in rat lymphoid tissue identified by localization of Ia, Thy-1 and MRC OX 2 antigens. Immunology. 44 (4): 727-36. 2. Webb, M. & Barclay, A.N. (1984) Localisation of the MRC OX-2 glycoprotein on the surfaces of neurones. J Neurochem. 43 (4): 1061-7. 3. Matsumoto, H. et al. (2007) Expression of CD200 by macrophage-like cells in ischemic core of rat brain after transient middle cerebral artery occlusion. Neurosci Lett. 418: 44-8. 4. Borriello, F. et al. (1997) MRC OX-2 defines a novel T cell costimulatory pathway. J Immunol. 158 (10): 4548-54. 5. Dick, A.D. et al. (2001) Distribution of OX2 antigen and OX2 receptor within retina. Invest Ophthalmol Vis Sci. 42: 170-6. 6. Ko, Y.C. et al. (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. J Anat. 214: 183-95. 7. Preston, S. et al. (1997) The leukocyte/neuron cell surface antigen OX2 binds to a ligand on macrophages. Eur J Immunol. 27: 1911-8. 8. Bartolome, M.V. et al. (2002) Transitional expression of OX-2 and GAP-43 glycoproteins in developing rat cochlear nerve fibers. Histol Histopathol. 17: 83-95. 9. Tsai, M.H. et al. (2015) CD200 in growing rat lungs: developmental expression and control by dexamethasone. Cell Tissue Res. 359 (3): 729-42.
Further Reading	1. Clark, M.J. et al. (1985) MRC OX-2 antigen: a lymphoid/neuronal membrane glycoprotein with a structure like a single immunoglobulin light chain. EMBO J. 4 (1): 113-8.
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.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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