

Datasheet: MCA44R

BATCH NUMBER 171838

Description:	MOUSE ANTI RAT CD200
Specificity:	CD200
Other names:	OX2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-2
Isotype:	IgG1
Quantity:	0.25 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 A 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	<p>UniProt: P04218 Related reagents</p> <p>Entrez Gene: 24560 Cd200 Related reagents</p>
Synonyms	Mox2
RRID	AB_2228917
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells from the NS1 mouse myeloma cell line.
Specificity	<p>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.</p> <p>The CD200-CD200 ligand system is important in the control of macrophage and granulocyte activation. Mouse anti Rat CD200 antibody, clone OX-2 blocks OX-2 mediated T cell co-stimulation (Ko et al. 2009).</p> <p>Mouse anti Rat CD200 antibody, clone OX-2 is routinely tested by flow cytometry on rat thymocytes.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 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 This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/MCA44R>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Goat Anti Mouse IgG (STAR76...) [RPE](#)
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Goat Anti Mouse IgG (STAR70...) [FITC](#)
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...) [FITC](#)

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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