

## Datasheet: MCA1959

**BATCH NUMBER 160242**

<b>Description:</b>	MOUSE ANTI RAT CD200 RECEPTOR 1
<b>Specificity:</b>	CD200 RECEPTOR 1
<b>Other names:</b>	OX2 RECEPTOR 1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-102
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Membrane fraction of thioglycollate-elicited rat peripheral cells.
External Database Links	<p><b>UniProt:</b>  <a href="#">Q9ES58</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">64357</a>    Cd200r1    <a href="#">Related reagents</a></p>
Synonyms	Mox2r, Ox2r
RRID	AB_2074188
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse NS1 myeloma cell line.
Specificity	<p><b>Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102</b> 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.</p> <p>Mouse anti Rat CD200 Receptor 1 antibody, clone OX-102 has been shown to block the interaction of OX2 receptor 1 with CD200 (<a href="#">Bushell et al. 2008</a>).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
References	<ol style="list-style-type: none"> <li>1. 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. <a href="#">Immunity. 13 (2): 233-42.</a></li> <li>2. Nathan, C. &amp; Muller, W.A. (2001) Putting the brakes on innate immunity: a regulatory role for CD200? <a href="#">Nat Immunol. 2 (1): 17-9.</a></li> <li>3. Dick, A.D. <i>et al.</i> (2001) Distribution of OX2 antigen and OX2 receptor within retina. <a href="#">Invest Ophthalmol Vis Sci. 42 (1): 170-6.</a></li> <li>4. Banerjee, D. &amp; Dick, A.D. (2004) Blocking CD200-CD200 receptor axis augments NOS-2 expression and aggravates experimental autoimmune uveoretinitis in Lewis rats. <a href="#">Ocul Immunol Inflamm. 12 (2): 115-25.</a></li> <li>5. Meuth, S.G. <i>et al.</i> (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. <a href="#">J Neuroimmunol. 194 (1-2): 62-9.</a></li> <li>6. 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. <a href="#">J Neuroimmunol. 282: 7-20.</a></li> <li>7. Chang, J.C. <i>et al.</i> (2019) Early Immune Response to Acute Gastric Fluid Aspiration in a Rat Model of Lung Transplantation. <a href="#">Exp Clin Transplant. 17 (1): 84-92.</a></li> </ol>

8. Nicholls, S.M. *et al.* (2015) Local targeting of the CD200-CD200R axis does not promote corneal graft survival. [Exp Eye Res. 130: 1-8.](#)
9. Xie, X. *et al.* (2017) Monocytes, microglia and CD200-CD200R1 signaling are essential in the transmission of inflammation from the periphery to the central nervous system. [J Neurochem. Feb 6. \[Epub ahead of print\]](#)

<b>Storage</b>	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.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1959">https://www.bio-rad-antibodies.com/SDS/MCA1959</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M383715:210513'

Printed on 05 Feb 2024