

## Datasheet: MCA2282

<b>Description:</b>	MOUSE ANTI HUMAN CD200R
<b>Specificity:</b>	CD200R
<b>Other names:</b>	OX2R
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX108
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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	▪			1/50 - 1/100
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

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.

<b>Target Species</b>	Human
<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 (NaN <sub>3</sub> )

<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Fusion protein hCD200RCD4d3+4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q8TD46</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">131450</a>    CD200R1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD200R, CRTR2, MOX2R, OX2R
<b>RRID</b>	AB_566624
<b>Specificity</b>	<p><b>Mouse anti Human CD200R antibody, clone OX108</b> recognizes human CD200R, a cell surface glycoprotein (also known as OX2R). In humans CD200R is expressed primarily by peripheral blood monocytes and neutrophils but also by other leucocytes including T-lymphocytes and mast cells, CD200-CD200R interaction may be involved in the control of myeloid cellular function (<a href="#">Wright et al. 2003</a>).</p> <p>Levels of expression on resting peripheral blood cells are relatively low.</p>
<b>Flow Cytometry</b>	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wright, G.J. <i>et al.</i> (2003) Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. <a href="#">J Immunol. 171 (6): 3034-46.</a></li> <li>2. Koning, N. <i>et al.</i> (2009) Distribution of the immune inhibitory molecules CD200 and CD200R in the normal central nervous system and multiple sclerosis lesions suggests neuron-glia and glia-glia interactions. <a href="#">J Neuropathol Exp Neurol. 68: 159-67.</a></li> <li>3. Melief, J. <i>et al.</i> (2012) Phenotyping primary human microglia: tight regulation of LPS responsiveness. <a href="#">Glia. 60 (10): 1506-17.</a></li> <li>4. Ambarus CA <i>et al.</i> (2012) Soluble immune complexes shift the TLR-induced cytokine production of distinct polarized human macrophage subsets towards IL-10. <a href="#">PLoS One. 7 (4): e35994.</a></li> <li>5. Ambarus, C.A. <i>et al.</i> (2012) Intimal lining layer macrophages but not synovial sublining macrophages display an IL-10 polarized-like phenotype in chronic synovitis. <a href="#">Arthritis Res Ther. 14 (2): R74.</a></li> <li>6. Vicetti, R.M. <i>et al.</i> (2013) Human female genital tract infection by the obligate intracellular bacterium <i>Chlamydia trachomatis</i> elicits robust Type 2 immunity. <a href="#">PLoS One. 8 (3): e58565.</a></li> <li>7. Melief, J. <i>et al.</i> (2013) Microglia in normal appearing white matter of multiple sclerosis are alerted but immunosuppressed. <a href="#">Glia. 61 (11): 1848-61.</a></li> <li>8. Vicetti Miguel, R.D. <i>et al.</i> (2013) Human female genital tract infection by the obligate</li> </ol>

intracellular bacterium *Chlamydia trachomatis* elicits robust Type 2 immunity. [PLoS One. 8 \(3\): e58565.](#)

9. Memarian, A. *et al.* (2013) Upregulation of CD200 is associated with Foxp3+ regulatory T cell expansion and disease progression in acute myeloid leukemia. [Tumour Biol. 34 \(1\): 531-42.](#)

10. van de Garde, M.D. *et al.* (2014) Chronic exposure to glucocorticoids shapes gene expression and modulates innate and adaptive activation pathways in macrophages with distinct changes in leukocyte attraction. [J Immunol. 192 \(3\): 1196-208.](#)

11. Sousa, S. *et al.* (2015) Human breast cancer cells educate macrophages toward the M2 activation status. [Breast Cancer Res. 17 \(1\): 101.](#)

12. Holmannova, D. *et al.* (2015) Inhibitory CD200R and proapoptotic CD95/CD95L molecules on innate immunity cells are modulated by cardiac surgery. [Perfusion. 30 \(7\): 543-55.](#)

13. Wiedemann, G.M. *et al.* (2016) A novel TLR7 agonist reverses NK cell anergy and cures RMA-S lymphoma-bearing mice. [Oncoimmunology. 5 \(7\): e1189051.](#)

14. Björnfort Holmström, S. *et al.* (2017) Gingival Tissue Inflammation Promotes Increased Matrix Metalloproteinase-12 Production by CD200R<sup>low</sup> Monocyte-Derived Cells in Periodontitis. [J Immunol. 199 \(12\): 4023-35.](#)

15. Pascoal, M.R. *et al.* (2022) CD200R1L is a functional evolutionary conserved activating receptor in human neutrophils. [J Leukoc Biol. 111 \(2\): 367-77.](#)

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

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2282">https://www.bio-rad-antibodies.com/SDS/MCA2282</a> 10040
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

## Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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