

## Datasheet: MCA1960GA

<b>Description:</b>	MOUSE ANTI HUMAN CD200
<b>Specificity:</b>	CD200
<b>Other names:</b>	OX2
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-104
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](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 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 1.0mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P41217</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">4345</a>    CD200    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MOX1, MOX2
<b>RRID</b>	AB_324650
<b>Specificity</b>	<p><b>Mouse anti Human CD200 antibody, clone OX-104</b> recognizes the human CD200 cell surface antigen, also known as OX2.</p> <p>CD200 is expressed by a subset of B lymphocytes, some endothelial cells and by neurons. The CD200-CD200 ligand system is of importance in the control of macrophage and granulocyte activation.</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> (2001) The unusual distribution of the neuronal/lymphoid cell surface CD200 (OX2) glycoprotein is conserved in humans. <a href="#">Immunology 102 (2): 173-9.</a></li> <li>2. Raftery, M.J. <i>et al.</i> (2004) Shaping phenotype, function, and survival of dendritic cells by cytomegalovirus-encoded IL-10. <a href="#">J Immunol. 173: 3383-91.</a></li> <li>3. Ohyama, M. <i>et al.</i> (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. <a href="#">J Clin Invest. 116: 249-60.</a></li> <li>4. Koning, N. <i>et al.</i> (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. <a href="#">Ann Neurol. 62: 504-14.</a></li> <li>5. Kloepper, J.E. <i>et al.</i> (2008) Immunophenotyping of the human bulge region: the quest to define useful <i>in situ</i> markers for human epithelial hair follicle stem cells and their niche. <a href="#">Exp Dermatol. 17 (7): 592-609.</a></li> <li>6. Kloepper, J.E. <i>et al.</i> (2008) Immunophenotyping of the human bulge region: the quest to define useful <i>in situ</i> markers for human epithelial hair follicle stem cells and their niche. <a href="#">Exp Dermatol. 17: 592-609.</a></li> <li>7. 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: 62-9.</a></li> <li>8. 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>9. Ko, Y.C. <i>et al.</i> (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. <a href="#">J Anat. 214: 183-95.</a></li> <li>10. Yamauchi, K. and Kurosaka, A. (2010) Expression and function of glycogen synthase</li> </ol>

kinase-3 in human hair follicles. [Arch Dermatol Res. 302: 263-70.](#)

11. Patel, G.K. *et al.* (2012) Identification and characterization of tumor-initiating cells in human primary cutaneous squamous cell carcinoma. [J Invest Dermatol. 132 \(2\): 401-9.](#)

12. Ohyama, M. & Kobayashi, T. (2012) Isolation and characterization of stem cell-enriched human and canine hair follicle keratinocytes. [Methods Mol Biol. 879: 389-401.](#)

13. Colmont, C.S. *et al.* (2013) CD200-expressing human basal cell carcinoma cells initiate tumor growth. [Proc Natl Acad Sci U S A. 110 \(4\): 1434-9.](#)

14. Darmochwal-Kolarz, D. *et al.* (2013) The expressions of co-stimulatory molecules are altered on putative antigen-presenting cells in cord blood. [Am J Reprod Immunol. 69 \(2\): 180-7.](#)

15. Chen, H.J. *et al.* (2015) Human placenta-derived adherent cells improve cardiac performance in mice with chronic heart failure. [Stem Cells Transl Med. 4 \(3\): 269-75.](#)

16. Bertolini, M. *et al.* (2023) Mechanical epilation exerts complex biological effects on human hair follicles and perifollicular skin: An *ex vivo* study approach. [Int J Cosmet Sci. Nov 03 \[Epub ahead of print\].](#)

17. van den Bosch, A.M.R. *et al.* (2024) Cortical CD200-CD200R and CD47-SIRP $\alpha$  expression is associated with multiple sclerosis pathology. [Brain Commun. 6 \(4\): fcae264.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA1960GA>  
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**Regulatory** 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](#)

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 (STAR13...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

## Recommended Negative Controls

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://bio-rad-antibodies.com/datasheets)  
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