

Datasheet: MCA1960

Description:	MOUSE ANTI HUMAN CD200
Specificity:	CD200
Other names:	OX2
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	OX-104
Isotype:	IgG1
Quantity:	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.

	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.

Target Species	Human
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 (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
External Database Links	<p>UniProt: P41217 Related reagents</p> <p>Entrez Gene: 4345 CD200 Related reagents</p>
Synonyms	MOX1, MOX2
RRID	AB_321839
Specificity	<p>Mouse anti Human CD200 antibody, clone OX-104 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>
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 ⁶ cells in 100µl
References	<ol style="list-style-type: none"> 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. Immunology 102 (2): 173-9. 2. Raftery, M.J. <i>et al.</i> (2004) Shaping phenotype, function, and survival of dendritic cells by cytomegalovirus-encoded IL-10. J Immunol. 173: 3383-91. 3. Ohyama, M. <i>et al.</i> (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. J Clin Invest. 116: 249-60. 4. Koning, N. <i>et al.</i> (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. Ann Neurol. 62: 504-14. 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. Exp Dermatol. 17 (7): 592-609. 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. Exp Dermatol. 17: 592-609. 7. Meuth, S.G. <i>et al.</i> (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. J Neuroimmunol. 194: 62-9. 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. J Neuropathol Exp Neurol. 68: 159-67. 9. Ko, Y.C. <i>et al.</i> (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. J Anat. 214: 183-95. 10. Yamauchi, K. and Kurosaka, A. (2010) Expression and function of glycogen synthase

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 α expression is associated with multiple sclerosis pathology. [Brain Commun. 6 \(4\): fcae264.](#)

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/MCA1960>
10040

Regulatory For research purposes only

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 \(MCA928\)](#)

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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
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