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	**UniProt:** P41217 Related reagents **Entrez Gene:** 4345 CD200 Related reagents
Synonyms	MOX1, MOX2
RRID	AB_321839
Specificity	**Mouse anti Human CD200 antibody, clone OX-104** recognizes the human CD200 cell surface antigen, also known as OX2. 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.
Flow Cytometry	Use 10µl of the suggested working dilution to label 10^6 cells in 100µl
References	1. Wright, G.J. *et al.* (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. *et al.* (2004) Shaping phenotype, function, and survival of dendritic cells by cytomegalovirus-encoded IL-10. J Immunol. 173: 3383-91. 3. Ohyama, M. *et al.* (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. J Clin Invest. 116: 249-60. 4. Koning, N. *et al.* (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. Ann Neurol. 62: 504-14. 5. Kloepper, J.E. *et al.* (2008) Immunophenotyping of the human bulge region: the quest to define useful *in situ* markers for human epithelial hair follicle stem cells and their niche. Exp Dermatol. 17 (7): 592-609. 6. Kloepper, J.E. *et al.* (2008) Immunophenotyping of the human bulge region: the quest to define useful *in situ* markers for human epithelial hair follicle stem cells and their niche. Exp Dermatol. 17: 592-609. 7. Meuth, S.G. *et al.* (2008) CNS inflammation and neuronal degeneration is aggravated by impaired CD200-CD200R-mediated macrophage silencing. J Neuroimmunol. 194: 62-9. 8. Koning, N. *et al.* (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. *et al.* (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].

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
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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: 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

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