

Datasheet: MCA1960FT

Description:	MOUSE ANTI HUMAN CD200:FITC
Specificity:	CD200
Other names:	OX2
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	OX-104
Isotype:	IgG1
Quantity:	25 µg

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	■			Neat - 1/5

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
Buffer Solution	Phosphate buffered saline		
Preservative	0.09% Sodium Azide		
Stabilisers	1% Bovine Serum Albumin		
Approx. Protein Concentrations	IgG concentration 0.1mg/ml		

External Database Links

UniProt:

[P41217](#) [Related reagents](#)

Entrez Gene:

[4345](#) CD200 [Related reagents](#)

Synonyms	MOX1, MOX2
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. Studies have suggested that the CD200-CD200 ligand system is of importance in the control of macrophage and granulocyte activation.</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
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. 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. 3. 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. 4. Koning, N. <i>et al.</i> (2007) Downregulation of macrophage inhibitory molecules in multiple sclerosis lesions. Ann Neurol. 62: 504-14. 5. 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. 6. 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. 7. Yamauchi, K. and Kurosaka, A. (2010) Expression and function of glycogen synthase kinase-3 in human hair follicles. Arch Dermatol Res. 302: 263-70. 8. 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. 9. 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. 10. Darmochwal-Kolarz, D. <i>et al.</i> (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. 11. Colmont, C.S. <i>et al.</i> (2013) CD200-expressing human basal cell carcinoma cells initiate tumor growth. Proc Natl Acad Sci U S A. 110 (4): 1434-9. 12. Chen, H.J. <i>et al.</i> (2015) Human placenta-derived adherent cells improve cardiac performance in mice with chronic heart failure. Stem Cells Transl Med. 4 (3): 269-75. 13. Ohyama, M. & Kobayashi, T. (2012) Isolation and characterization of stem cell-enriched human and canine hair follicle keratinocytes. Methods Mol Biol. 879: 389-401. 14. Patel, G.K. <i>et al.</i> (2012) Identification and characterization of tumor-initiating cells in human primary cutaneous squamous cell carcinoma. J Invest Dermatol. 132 (2): 401-9. 15. 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.
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.</p>

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life	18 months from date of despatch.
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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:FITC \(MCA928F\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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
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