

Datasheet: MCA1960PE

Description:	MOUSE ANTI HUMAN CD200:RPE
Specificity:	CD200
Other names:	OX2
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX-104
Isotype:	IgG1
Quantity:	100 TESTS

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

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. 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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1ml distilled water		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	RPE 488nm laser	496	578
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	
	5%	Sucrose	

**External Database
Links**

UniProt:

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

Entrez Gene:

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

Synonyms

MOX1, MOX2

RRID

AB_323429

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. Studies have suggested that the CD200-CD200 ligand system is of importance in the control of macrophage and granulocyte activation.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

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. Ko, Y.C. *et al.* (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. [J Anat. 214: 183-95.](#)
3. 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.](#)
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6. 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.](#)
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. *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.](#)
9. Ohyama, M. *et al.* (2006) Characterization and isolation of stem cell-enriched human hair follicle bulge cells. [J Clin Invest. 116: 249-60.](#)
10. 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.](#)
11. 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.](#)
12. 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.](#)

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. *et al.* (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. *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.](#)

Storage Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

Recommended Useful Reagents

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

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

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