

Datasheet: MCA2282PE

BATCH NUMBER 0812

Description:	MOUSE ANTI HUMAN CD200R:RPE
Specificity:	CD200R
Other names:	OX2R
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	OX108
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 - 1/10

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 R. Phycoerythrin (RPE) - lyophilized		
Reconstitution	Reconstitute with 1.0 ml 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

Immunogen	Fusion protein hCD200RCD4d3+4.
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External Database Links	UniProt: Q8TD46 Related reagents
	Entrez Gene: 131450 CD200R1 Related reagents

Synonyms	CD200R, CRTR2, MOX2R, OX2R
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RRID	AB_566627
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Specificity	<p>Mouse anti Human CD200R antibody, clone OX108 recognizes human CD200R, a cell surface glycoprotein (also known as OX2R). In humans CD200R is expressed primarily by peripheral blood monocytes and neutrophils but also by other leucocytes including T-lymphocytes and mast cells, CD200-CD200R interaction may be involved in the control of myeloid cellular function (Wright et al. 2003).</p> <p>Levels of expression on resting peripheral blood cells are relatively low.</p>
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Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul
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References	<ol style="list-style-type: none">1. Wright, G.J. <i>et al.</i> (2003) Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. J Immunol. 171 (6): 3034-46.2. 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: 159-67.3. Melief, J. <i>et al.</i> (2013) Microglia in normal appearing white matter of multiple sclerosis are alerted but immunosuppressed. Glia. 61 (11): 1848-61.4. Ambarus, C.A. <i>et al.</i> (2012) Intimal lining layer macrophages but not synovial sublining macrophages display an IL-10 polarized-like phenotype in chronic synovitis. Arthritis Res Ther. 14 (2): R74.5. Holmannova, D. <i>et al.</i> (2015) Inhibitory CD200R and proapoptotic CD95/CD95L molecules on innate immunity cells are modulated by cardiac surgery. Perfusion. 30 (7): 543-55.6. Ambarus CA <i>et al.</i> (2012) Soluble immune complexes shift the TLR-induced cytokine production of distinct polarized human macrophage subsets towards IL-10. PLoS One. 7 (4): e35994.7. Memarian, A. <i>et al.</i> (2013) Upregulation of CD200 is associated with Foxp3+ regulatory T cell expansion and disease progression in acute myeloid leukemia. Tumour Biol. 34 (1): 531-42.8. Sousa, S. <i>et al.</i> (2015) Human breast cancer cells educate macrophages toward the M2 activation status. Breast Cancer Res. 17 (1): 101.9. Vicetti Miguel, R.D. <i>et al.</i> (2013) Human female genital tract infection by the obligate intracellular bacterium <i>Chlamydia trachomatis</i> elicits robust Type 2 immunity. PLoS One. 8
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10. van de Garde, M.D. *et al.* (2014) Chronic exposure to glucocorticoids shapes gene expression and modulates innate and adaptive activation pathways in macrophages with distinct changes in leukocyte attraction. [J Immunol. 192 \(3\): 1196-208](#).

11. Melief, J. *et al.* (2012) Phenotyping primary human microglia: tight regulation of LPS responsiveness. [Glia. 60 \(10\): 1506-17](#).

12. Georgoudaki, A.M. *et al.* (2016) Reprogramming Tumor-Associated Macrophages by Antibody Targeting Inhibits Cancer Progression and Metastasis. [Cell Rep. 15 \(9\): 2000-11](#).

13. Björnöt Holmström, S. *et al.* (2017) Gingival Tissue Inflammation Promotes Increased Matrix Metalloproteinase-12 Production by CD200R^{low} Monocyte-Derived Cells in Periodontitis. [J Immunol. 199 \(12\): 4023-35](#).

14. Wiedemann, G.M. *et al.* (2016) A novel TLR7 agonist reverses NK cell anergy and cures RMA-S lymphoma-bearing mice. [Oncoimmunology. 5 \(7\): e1189051](#).

15. Vicetti, R.M. *et al.* (2013) Human female genital tract infection by the obligate intracellular bacterium *Chlamydia trachomatis* elicits robust Type 2 immunity. [PLoS One. 8 \(3\): e58565](#).

Storage

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 #20487 available at: <https://www.bio-rad-antibodies.com/SDS/MCA2282PE>
20487

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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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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