

## Datasheet: MCA2282PET

<b>Description:</b>	MOUSE ANTI HUMAN CD200R:RPE
<b>Specificity:</b>	CD200R
<b>Other names:</b>	OX2R
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX108
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	25 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](http://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.

<b>Target Species</b>	Human		
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized		
<b>Reconstitution</b>	Reconstitute in 0.25 ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative</b>	0.09% Sodium Azide		
<b>Stabilisers</b>	1%	Bovine Serum Albumin	
	5%	Sucrose	

<b>Immunogen</b>	Fusion protein hCD200RCD4d3+4.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q8TD46</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">131450</a>    CD200R1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	CD200R, CRTR2, MOX2R, OX2R
<b>RRID</b>	AB_2259985
<b>Specificity</b>	<p><b>Mouse anti Human CD200R antibody, clone OX108</b> 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 (<a href="#">Wright <i>et al.</i> 2003</a>).</p> <p>Levels of expression on resting peripheral blood cells are relatively low.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Wright, G.J. <i>et al.</i> (2003) Characterization of the CD200 receptor family in mice and humans and their interactions with CD200. <a href="#">J Immunol. 171 (6): 3034-46.</a></li> <li>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. <a href="#">J Neuropathol Exp Neurol. 68: 159-67.</a></li> <li>3. Melief, J. <i>et al.</i> (2013) Microglia in normal appearing white matter of multiple sclerosis are alerted but immunosuppressed. <a href="#">Glia. 61 (11): 1848-61.</a></li> <li>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. <a href="#">Arthritis Res Ther. 14 (2): R74.</a></li> <li>5. Holmannova, D. <i>et al.</i> (2015) Inhibitory CD200R and proapoptotic CD95/CD95L molecules on innate immunity cells are modulated by cardiac surgery. <a href="#">Perfusion. 30 (7): 543-55.</a></li> <li>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. <a href="#">PLoS One. 7 (4): e35994.</a></li> <li>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. <a href="#">Tumour Biol. 34 (1): 531-42.</a></li> <li>8. Sousa, S. <i>et al.</i> (2015) Human breast cancer cells educate macrophages toward the M2 activation status. <a href="#">Breast Cancer Res. 17 (1): 101.</a></li> <li>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. <a href="#">PLoS One. 8 (3): e58565.</a></li> <li>10. van de Garde, M.D. <i>et al.</i> (2014) Chronic exposure to glucocorticoids shapes gene</li> </ol>

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. Björnfot Holmström, S. *et al.* (2017) Gingival Tissue Inflammation Promotes Increased Matrix Metalloproteinase-12 Production by CD200R<sup>low</sup> 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.](#)

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**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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #20487 available at: 20487: <https://www.bio-rad-antibodies.com/uploads/MSDS/20487.pdf>

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**Regulatory** For research purposes only

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## 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](https://www.bio-rad-antibodies.com/datasheets)

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