

## Datasheet: MCA1958PET

<b>Description:</b>	RAT ANTI MOUSE CD200:RPE
<b>Specificity:</b>	CD200
<b>Other names:</b>	OX2
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	OX-90
<b>Isotype:</b>	IgG2a
<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	■			

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.

<b>Target Species</b>	Mouse						
<b>Product Form</b>	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>RPE 488nm laser</td> <td>496</td> <td>578</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	RPE 488nm laser	496	578
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
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>	Mouse CD200-rat CD4 fusion protein.						
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O54901</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">17470</a> Cd200   <a href="#">Related reagents</a></p>						

<b>Synonyms</b>	Mox2
<b>Fusion Partners</b>	Spleen cells from immunised rats were fused with cells of the rat Y3 myeloma cell line
<b>Specificity</b>	<p><b>Rat anti Mouse CD200 antibody, clone OX-90</b> recognizes the mouse CD200 cell surface antigen, also known as OX2.</p> <p>CD200 is expressed by splenic B lymphocytes, follicular dendritic cells, splenic endothelium and by neurons.</p> <p>Studies have suggested that the CD200 - CD200 ligand system is of importance in the control of macrophage and granulocyte activation.</p>
<b>Flow Cytometry</b>	<p>Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.</p> <p>The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR (<a href="#">BUF041A/B</a>).</p>
<b>References</b>	<ol style="list-style-type: none"> <li>1. Hoek, R.M. <i>et al.</i> (2000) Down-regulation of the macrophage lineage through interaction with OX2 (CD200). <a href="#">Science. 290 (5497): 1768-71.</a></li> <li>2. Nathan, C. &amp; Muller, W.A. (2001) Putting the brakes on innate immunity: a regulatory role for CD200? <a href="#">Nat Immunol. 2 (1): 17-9.</a></li> <li>3. Broderick, C. <i>et al.</i> (2002) Constitutive retinal CD200 expression regulates resident microglia and activation state of inflammatory cells during experimental autoimmune uveoretinitis. <a href="#">Am J Pathol. 161 (5): 1669-77.</a></li> <li>4. Seeds, R.E. <i>et al.</i> (2011) The role of myeloid receptors on murine plasmacytoid dendritic cells in induction of type I interferon. <a href="#">Int Immunopharmacol. 11 (7): 794-801.</a></li> <li>5. Burger, P.E. <i>et al.</i> (2009) High aldehyde dehydrogenase activity: a novel functional marker of murine prostate stem/progenitor cells. <a href="#">Stem Cells. 27: 2220-8.</a></li> <li>6. Garza, L.A. <i>et al.</i> (2011) Bald scalp in men with androgenetic alopecia retains hair follicle stem cells but lacks CD200-rich and CD34-positive hair follicle progenitor cells. <a href="#">J Clin Invest. 121: 613-22.</a></li> <li>7. Ko, Y.C. <i>et al.</i> (2009) Endothelial CD200 is heterogeneously distributed, regulated and involved in immune cell-endothelium interactions. <a href="#">J Anat. 214: 183-95.</a></li> <li>8. 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>9. Krejsek, J. <i>et al.</i> (2010) Expression of CD200/CD200R regulatory molecules on granulocytes and monocytes is modulated by cardiac surgical operation. <a href="#">Perfusion. 25: 389-97.</a></li> <li>10. Rijkers, E.S. (2007) Ligation of CD200R by CD200 is not required for normal murine myelopoiesis. <a href="#">Eur J Haematol. 79: 410-6.</a></li> <li>11. Rijkers, E.S. <i>et al.</i> (2008) The inhibitory CD200R is differentially expressed on human and mouse T and B lymphocytes. <a href="#">Mol Immunol. 45: 1126-35.</a></li> <li>12. Liu, J.Q. <i>et al.</i> (2016) A Critical Role for CD200R Signaling in Limiting the Growth and Metastasis of CD200+ Melanoma. <a href="#">J Immunol. Jul 6. pii: 1600052. [Epub ahead of print]</a></li> <li>13. Montiel, M. <i>et al.</i> (2016) Melatonin decreases brain apoptosis, oxidative stress, and CD200 expression and increased survival rate in mice infected by Venezuelan equine encephalitis virus. <a href="#">Antivir Chem Chemother. Aug 8. pii: 2040206616660851. [Epub ahead of print]</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C. DO NOT FREEZE.</p> <p>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.</p>

**Shelf Life** 12 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10306 available at:  
10306: <https://www.bio-rad-antibodies.com/uploads/MSDS/10306.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:RPE \(MCA1212PE\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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