

## Datasheet: MCA1511PE

<b>Description:</b>	RAT ANTI MOUSE CD38:RPE
<b>Specificity:</b>	CD38
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	90
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.1 mg

## 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>	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>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> ) Stabilizing agent						
<b>Immunogen</b>	Mouse pre-B cells derived from IL-7 dependent bone marrow cultures.						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P56528</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b>						

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<b>RRID</b>	AB_321683
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<b>Fusion Partners</b>	Lymph node cells from an immunized rat were fused with cells of the mouse P3X63Ag.8.653 myeloma cell line.
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<b>Specificity</b>	<p><b>Rat anti Mouse CD38 antibody, clone 90</b> recognizes the murine CD38 cell surface antigen, a ~42-46kDa glycoprotein expressed by B lymphocytes, a proportion of peripheral T lymphocytes and by peritoneal macrophages.</p> <p>In the mouse CD38 is expressed by follicular B cells, is down regulated on germinal centre B cells, and not expressed by mature plasma cells. This pattern of expression contrasts strikingly with that seen in the human.</p>
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<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>
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<b>References</b>	<ol style="list-style-type: none"><li>1. Lund, F. <i>et al.</i> (1995) Murine CD38: an immunoregulatory ectoenzyme. <a href="#">Immunol Today. 16 (10): 469-73.</a></li><li>2. Oliver, A.M. <i>et al.</i> (1997) Mouse CD38 is down-regulated on germinal center B cells and mature plasma cells. <a href="#">J Immunol. 158 (3): 1108-15.</a></li></ol>
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<b>Storage</b>	<p>Store at +4°C.</p> <p>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>
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<b>Guarantee</b>	Guaranteed until date of expiry. Please see product label.
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10331 available at: 10331: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10331.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10331.pdf</a>
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<b>Regulatory</b>	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 \(BUF041B\)](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

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March

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