

## Datasheet: MCA2495PE

<b>Description:</b>	MOUSE ANTI HUMAN CD19:RPE
<b>Specificity:</b>	CD19
<b>Format:</b>	RPE
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	Bu12
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

Where this product 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 product 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 with 1.0 ml distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.								
<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 (NaN <sub>3</sub> )								
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose								
<b>Immunogen</b>	Human EB-4 Burkitt lymphoma cell line.								
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P15391</a> <a href="#">Related reagents</a>								

**Entrez Gene:**[930](#) CD19 [Related reagents](#)

<b>Fusion Partners</b>	Spleen cells from immunized mice were fused with cells from the X63 AG8 653 plasmacytoma.
<b>Specificity</b>	<b>Mouse anti Human CD19 antibody, clone Bu12</b> recognizes human CD19, a 95 kDa cell surface glycoprotein, which is expressed on cells of the B cell lineage and follicular dendritic cells but absent on plasma cells. CD19 is an important signal transduction molecule which is involved in the regulation of B lymphocyte development, activation and differentiation.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>References</b>	<ol style="list-style-type: none"> <li>1. Zhou, L. and Tedder, T. (1993) CD19 Workshop panel report. In leucocyte Typing V. White cell differentiation antigens. Oxford University press. p507 – 509.</li> <li>2. Smith SH <i>et al.</i> (1991) Activation of human B cells through the CD19 surface antigen results in homotypic adhesion by LFA-1-dependent and -independent mechanisms. <a href="#">Immunology. 73 (3): 293-7.</a></li> <li>3. Callard, R.E. <i>et al.</i> (1992) CD19 regulation of human B cell responses. B cell proliferation and antibody secretion are inhibited or enhanced by ligation of the CD19 surface glycoprotein depending on the stimulating signal used. <a href="#">J Immunol. 148 (10): 2983-7.</a></li> <li>4. Callard, R.E. <i>et al.</i> (1995) CD40 cross-linking inhibits specific antibody production by human B cells. <a href="#">Int Immunol. 7 (11): 1809-15.</a></li> <li>5. Flavell, D.J. <i>et al.</i> (1995) Preclinical studies with the anti-CD19-saporin immunotoxin BU12-SAPORIN for the treatment of human-B-cell tumours. <a href="#">Br J Cancer. 72 (6): 1373-9.</a></li> <li>6. Vallera, D. A. <i>et al.</i> (2004) Radiotherapy of CD19 expressing Daudi tumors in nude mice with Yttrium-90-labeled anti-CD19 antibody. <a href="#">Cancer Biother Radiopharm. 19 (1): 11-23.</a></li> </ol>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light.
<b>Guarantee</b>	12 months from date of reconstitution
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10075 available at: 10075: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)[HUMAN SEROBLOCK \(BUF070B\)](#)**North & South** Tel: +1 800 265 7376**America** Fax: +1 919 878 3751Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)**Worldwide**

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