

## Datasheet: MCA1439PB

<b>Description:</b>	RAT ANTI MOUSE CD19:Pacific Blue®
<b>Specificity:</b>	CD19
<b>Format:</b>	Pacific Blue®
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	6D5
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	100 TESTS/1ml

## 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	▪			1/5 - 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 Pacific Blue® - 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>Pacific Blue®</td> <td>410</td> <td>455</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Pacific Blue®	410	455
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
Pacific Blue®	410	455					
<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						
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml						
<b>Immunogen</b>	Human K562 cell line transfected with murine CD19.						
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P25918</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p>						

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<b>Fusion Partners</b>	Spleen cells from immunised rats were fused with cells of the P3X63.Ag8.653 myeloma cell line.
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<b>Specificity</b>	<b>Rat anti Mouse CD19 antibody, clone 6D5</b> recognizes the murine CD19 cell surface antigen, a 95kDa glycoprotein expressed by B lymphocytes. Clone 6D5 has been shown to recognize the same epitope as clone ID3 in cross-competition assays.
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<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.  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> ).
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<b>References</b>	<ol style="list-style-type: none"><li>1. Vernooy, J.H. <i>et al.</i> (2002) Long-term intratracheal lipopolysaccharide exposure in mice results in chronic lung inflammation and persistent pathology. <a href="#">Am J Respir Cell Mol Biol. 26 (1): 152-9.</a></li><li>2. Andrew, D. and Aspinall. R. (2001) Il-7 and not stem cell factor reverses both the increase in apoptosis and the decline in thymopoiesis seen in aged mice. <a href="#">J Immunol. 166: 1524-30.</a></li><li>3. Bermudez-Fajardo, A. <i>et al.</i> (2011) The effect of Chlamydomydia pneumoniae Major Outer Membrane Protein (MOMP) on macrophage and T cell-mediated immune responses. <a href="#">Immunobiology. 216: 152-63.</a></li><li>4. De Jesus, M. <i>et al.</i> (2009) Galactoxylomannan-mediated immunological paralysis results from specific B cell depletion in the context of widespread immune system damage. <a href="#">J Immunol. 183: 3885-94.</a></li><li>5. Jégou, J.F. <i>et al.</i> (2007) C3d binding to the myelin oligodendrocyte glycoprotein results in an exacerbated experimental autoimmune encephalomyelitis. <a href="#">J Immunol. 178: 3323-31.</a></li><li>6. Starck, J. <i>et al.</i> (2010) Inducible Fli-1 gene deletion in adult mice modifies several myeloid lineage commitment decisions and accelerates proliferation arrest and terminal erythrocytic differentiation. <a href="#">Blood. 116: 4795-805.</a></li><li>7. Scotland, R.S. <i>et al.</i> (2011) Sex differences in resident immune cell phenotype underlie more efficient acute inflammatory responses in female mice. <a href="#">Blood. 118 (22): 5918-27.</a></li><li>8. White, H.N. and Meng, Q.H. (2012) Recruitment of a Distinct but Related Set of VH Sequences into the Murine CD21hi/CD23- Marginal Zone B Cell Repertoire to That Seen in the Class-Switched Antibody Response. <a href="#">J Immunol. 188: 287-93.</a></li><li>9. Reynaud, J.M. <i>et al.</i> (2014) Human herpesvirus 6A infection in CD46 transgenic mice: viral persistence in the brain and increased production of proinflammatory chemokines via Toll-like receptor 9. <a href="#">J Virol. 88: 5421-36.</a></li><li>10. Candolfi, M. <i>et al.</i> (2011) B cells are critical to T-cell-mediated antitumor immunity induced by a combined immune-stimulatory/conditionally cytotoxic therapy for glioblastoma. <a href="#">Neoplasia. 13: 947-60.</a></li><li>11. Takabayashi, H. <i>et al.</i> (2014) Anti-inflammatory activity of bone morphogenetic protein signaling pathways in stomachs of mice. <a href="#">Gastroenterology. 147: 396-406.e7.</a></li><li>12. Weiss-Gayet, M. <i>et al.</i> (2016) Notch Stimulates Both Self-Renewal and Lineage Plasticity in a Subset of Murine CD9High Committed Megakaryocytic Progenitors. <a href="#">PLoS One. 11 (4): e0153860.</a></li><li>13. Meng, Q.H. &amp; White, H.N. (2017) CD21<sup>int</sup> CD23<sup>+</sup> follicular B cells express antigen-specific secretory IgM mRNA as primary and memory responses. <a href="#">Immunology. 151 (2): 211-8.</a></li><li>14. Baer, A. <i>et al.</i> (2016) Protein Phosphatase-1 regulates Rift Valley fever virus replication. <a href="#">Antiviral Res. 127: 79-89.</a></li><li>15. Mccubbrey, A.L. <i>et al.</i> (2016) MicroRNA-34a Negatively Regulates Efferocytosis by Tissue Macrophages in Part via SIRT1. <a href="#">J Immunol. 196 (3): 1366-75.</a></li></ol>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred.
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This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Pacific Blue® \(MCA1212PB\)](#)

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

**America** Fax: +1 919 878 3751

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