

## Datasheet: MCA929PB

<b>Description:</b>	MOUSE IgG2a NEGATIVE CONTROL:Pacific Blue®
<b>Specificity:</b>	MOUSE IgG2a NEGATIVE CONTROL
<b>Format:</b>	Pacific Blue®
<b>Product Type:</b>	Negative/Isotype Control
<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	■			*

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 dilutes the antibody for use in their own system to a concentration equivalent to their test reagents.

<b>Target Species</b>	Negative Control		
<b>Product Form</b>	Purified IgG conjugated to Pacific Blue® - liquid		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	Pacific Blue®	410	455
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant		
<b>Buffer Solution</b>	Phosphate buffered saline		
<b>Preservative Stabilisers</b>	0.09% Sodium Azide		
	1% Bovine Serum Albumin		
<b>Approx. Protein Concentrations</b>	IgG concentration 0.05 mg/ml		
<b>Immunogen</b>	Activated rat T-helper cells.		

<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the NS1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse IgG2a negative control antibody, clone OX-34</b> is suitable for use as a negative control reagent for the measurement of non-specific binding of mouse monoclonal antibodies of isotype IgG2a to human tissue.</p> <p>Clone MRC OX-34 recognises a rat cell surface marker, and therefore cannot be used as a negative control in this species.</p> <p>This product is routinely tested in flow cytometry on rat splenocytes to confirm antibody activity and on human whole blood to test for suitability as a negative control.</p> <p>Test results have shown that MCA929 is also suitable for use as a negative control with bovine, ovine, porcine, equine, canine, lapine and guinea-pig tissues.</p> <p>This antibody may not be suitable for intracellular staining on some cell types.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $10^6$ cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Avigdor, A. <i>et al.</i> (2004) CD44 and hyaluronic acid cooperate with SDF-1 in the trafficking of human CD34+ stem/progenitor cells to bone marrow. <a href="#">Blood. 103 (8): 2981-9.</a></li> <li>2. Kamble, N.M. <i>et al.</i> (2016) Interaction of a live attenuated Salmonella Gallinarum vaccine candidate with chicken bone marrow-derived dendritic cells. <a href="#">Avian Pathol. 45 (2): 235-43.</a></li> <li>3. Wattegedera, S.R. <i>et al.</i> (2017) Enhancing the toolbox to study IL-17A in cattle and sheep. <a href="#">Vet Res. 48 (1): 20.</a></li> <li>4. Terpeluk, R.E. <i>et al.</i> (2024) Supplementation of Foals with a <i>Saccharomyces cerevisiae</i> Fermentation Product Alters the Early Response to Vaccination <a href="#">Animals. 14 (6): 960.</a></li> <li>5. Maciag, S. <i>et al.</i> (2022) Effects of freezing storage on the stability of maternal cellular and humoral immune components in porcine colostrum. <a href="#">Vet Immunol Immunopathol. 254: 110520.</a></li> <li>6. Forner, R. <i>et al.</i> (2021) Distribution difference of colostrum-derived B and T cells subsets in gilts and sows. <a href="#">PLoS One. 16 (5): e0249366.</a></li> <li>7. Rogato, F. <i>et al.</i> (2024) Leukemia cutis as a prominent clinical sign in a dog with acute myeloid leukemia. <a href="#">Vet Clin Pathol. 53 (4): 448-57.</a></li> </ol>
<b>Storage</b>	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
<b>Guarantee</b>	12 months from date of despatch

---

<b>Acknowledgements</b>	The Pacific Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays, and are covered by pending and issued patents.
-------------------------	--

---

<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA929PB">https://www.bio-rad-antibodies.com/SDS/MCA929PB</a> 10041
--------------------------------------	--

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

## Related Products

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Pacific Blue® \(MCA1210PB\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M385352:210513'

**Printed on 24 May 2025**

---

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)