

Datasheet: MCA4700PE

Description:	RAT ANTI MOUSE CD1d:RPE
Specificity:	CD1d
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	1B1
Isotype:	IgG2b
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/5 - 1/10

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.

Target Species	Mouse						
Product Form	Purified IgG conjugated to R. Phycoerythrin (RPE) - liquid						
Max Ex/Em	<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					
Preparation	Purified IgG prepared by affinity chromatography						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)						
Approx. Protein Concentrations	IgG concentration 0.2 mg/ml						
Immunogen	Mouse CD1d cDNA-transfected RMA-S mouse T lymphoma						
External Database Links	<p>UniProt:</p> <p>P11609 Related reagents</p> <p>Entrez Gene:</p>						

Synonyms	Cd1.1
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Specificity	Rat anti Mouse CD1d antibody, clone 1B1 recognizes mouse CD1d, a glycoprotein expressed on cortical thymocytes, certain T cell leukemias and various other antigen presenting cells. CD1d binds self and non-self glycolipids and presents them to T cell receptors on natural killer cells. When activated, natural killer cells produce Th1 and Th2 cytokines.
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Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul
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References	<ol style="list-style-type: none">1. Sun, J. <i>et al.</i> (2010) Deficiency of antigen-presenting cell invariant chain reduces atherosclerosis in mice. Circulation 122 (8): 808-20.2. Zhou, Z. <i>et al.</i> (2011) Autoreactive marginal zone B cells enter the follicles and interact with CD4+ T cells in lupus-prone mice. BMC Immunol. 12: 7.3. Soh, S. Y. <i>et al.</i> (2016) NKT Cell Hyporesponsiveness Leads to Unrestrained Accumulation of Marginal Zone B Cells in Hypercholesterolemic Apolipoprotein E-Deficient Mice. The Journal of Immunology. Oct 21 [Epub ahead of print].
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Storage	Store at +4°C. DO NOT FREEZE. 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.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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