

## Datasheet: MCA4700

**BATCH NUMBER 158172**

<b>Description:</b>	RAT ANTI MOUSE CD1d
<b>Specificity:</b>	CD1d
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	1B1
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	0.25 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	▪			1/10 - 1/20
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

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>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml

<b>Immunogen</b>	Mouse CD1d cDNA-transfected RMA-S mouse T lymphoma
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P11609</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">12479</a> Cd1d1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Cd1.1
<b>RRID</b>	AB_2228873
<b>Specificity</b>	<b>Rat anti Mouse CD1d antibody, clone 1B1</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>Sun, J. <i>et al.</i> (2010) Deficiency of antigen-presenting cell invariant chain reduces atherosclerosis in mice. <a href="#">Circulation 122 (8): 808-20.</a></li> <li>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. <a href="#">BMC Immunol. 12: 7.</a></li> <li>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. <a href="#">The Journal of Immunology. Oct 21 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4700">https://www.bio-rad-antibodies.com/SDS/MCA4700</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>

Goat Anti Rat IgG (STAR73...)

[RPE](#)

Rabbit Anti Rat IgG (STAR21...)

[HRP](#)

Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight@550](#), [DyLight@650](#), [DyLight@800](#)

Goat Anti Rat IgG (STAR131...)

[Alk. Phos.](#), [Biotin](#)

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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)

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