

## Datasheet: MCA4700

<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

**RRID** AB\_2228873

**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.

**Target Species** Mouse

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** IgG concentration 0.5mg/ml

**Immunogen** Mouse CD1d cDNA-transfected RMA-S mouse T lymphoma

**External Database** UniProt:

Links [P11609](#) [Related reagents](#)

**Entrez Gene:**

[12479](#) Cd1d1 [Related reagents](#)

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**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  $1 \times 10^6$  cells in 100ul.

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**References**

1. Sun, J. *et al.* (2010) Deficiency of antigen-presenting cell invariant chain reduces atherosclerosis in mice. [Circulation 122 \(8\): 808-20.](#)
2. Zhou, Z. *et al.* (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. *et al.* (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. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 18 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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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®800</a>

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