

Datasheet: MCA4700

BATCH NUMBER 158172

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

	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 ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

Immunogen	Mouse CD1d cDNA-transfected RMA-S mouse T lymphoma
External Database Links	UniProt: P11609 Related reagents Entrez Gene: 12479 Cd1d1 Related reagents
Synonyms	Cd1.1
RRID	AB_2228873
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.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.
References	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].
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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4700 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
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](#)
Goat Anti Rat IgG (STAR72...) [HRP](#)
Goat Anti Rat IgG (STAR69...) [FITC](#)

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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
'M367938:200529'

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