

Datasheet: MCA5799F

Description:	MOUSE ANTI RAT CD1d:FITC
Specificity:	CD1d
Format:	FITC
<b>Product Type:</b>	Monoclonal Antibody
Clone:	WTH1
Isotype:	lgG2a
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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	•			1/1,000
Immunohistology - Frozen				
Immunohistology - Paraffin				
ELISA			•	
Immunoprecipitation			•	
Western Blotting			•	
Functional Assays			•	

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	Rat			
Species Cross	Reacts with: Mous	se		
Reactivity	Does not react wit	th:Cotton rat		
	reactivity is derive	ctivity and working conditing the condition of the condition of the condition of the control of the condition of the conditio	aboratories, peer-rev	viewed publications or
Product Form	Purified IgM conju	igated to Fluorescein Isoth	niocyanate Isomer 1	(FITC) - liquid
Product Form  Max Ex/Em	Purified IgM conju	gated to Fluorescein Isoth		, ,

Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN <sub>3</sub> )
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Rat CD1d-transduced M12.4.1.C3 cells.
External Database Links	UniProt: P11609 Related reagents Q63493 Related reagents
	Entrez Gene:
	12479 Cd1d1 Related reagents 25109 Cd1d1 Related reagents
	25105 Cultul Intelated reagents
Synonyms	Cd1.1, Cd1d1
RRID	AB_10891431
Specificity	Mouse anti Rat CD1d antibody, clone WTH1 recognizes rat CD1d, a glycoprotein expressed on cortical thymocytes, certain T-cell leukaemias 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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Specificity  Flow Cytometry	expressed on cortical thymocytes, certain T-cell leukaemias 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.  Clone WTH1 binds with high affinity to the mature CD1d heavy chain independently of beta-2-microglobulin. Mouse anti Rat CD1d antibody, clone WTH1 efficiently blocks rat and mouse invariant natural killer T cell (iNKT cell) response to a-GalCer (an antigen for iNKT cells) and has a slightly higher affinity to native CD1d than clone WTH2.  Clone WTH1 cross reacts weakly with mouse tissue in IHC and western blotting, but reacts strongly with both rat and mouse antigens in flow cytometry and

remarkable similarities to human iNKT cells and a profound deficiency in LEW rats. <u>Eur J Immunol. 43 (2): 404-15.</u>

**Storage** 

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.

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.

# Related Products

### **Recommended Negative Controls**

### MOUSE IgG2a NEGATIVE CONTROL:FITC (MCA1210F)

North & South Tel: +1 800 265 7376 America Fax: +1 919 878 3751 Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody\_sales\_us@bio-rad.com

Email: antibody\_sales\_uk@bio-rad.com

Email: antibody\_sales\_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389619:210806'

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