

Datasheet: MCA1121

Description:	MOUSE ANTI HUMAN DENDRITIC CELLS
Specificity:	DENDRITIC CELLS/B CELLS
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RFD1
Isotype:	IgM
Quantity:	0.2 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			▪	
Immunohistology - Frozen (1)	▪			
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.

Target Species	Human
Species Cross Reactivity	Reacts with: Macaque N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgM- liquid
Preparation	Purified IgM prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgM concentration 0.5 mg/ml

Fusion Partners Spleen cells from immunised Balb/c mice were fused with cells of the NS1 mouse myeloma cell line.

Specificity **Mouse anti Human dendritic cells antibody, clone RFD1** recognizes an epitope within the class II MHC complex. In normal tissue mouse anti human dendritic cells antibody, clone RFD1 identifies dendritic cells and a proportion of B lymphocytes. Within the macrophage/dendritic cell populations the epitope seen by RFD1 is co-expressed with RFD7 by a subset of cells that exhibit suppressive activity on T cell stimulation. Mouse anti Human dendritic cells antibody, clone RFD1 does not bind to monocytes or cells of the granulocyte lineage.

Mouse anti Human dendritic cells antibody, clone RFD1 has been used for the induction of apoptosis via MHC Class II cross linking of gastric mucosa epithelial cells ([Fan et al. 1998](#)).

References

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5. Leonard, C.T. *et al.* (2000) Dendritic cells and macrophages in lung allografts: A role in chronic rejection? [Am J Respir Crit Care Med. 161: 1349-54.](#)
6. Fan, X. *et al.* (1998) The effect of class II major histocompatibility complex expression on adherence of *Helicobacter pylori* and induction of apoptosis in gastric epithelial cells: a mechanism for T helper cell type 1-mediated damage. [J Exp Med. 187: 1659-69.](#)
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12. Bland, D.A. *et al.* (2006) H. pylori receptor MHC class II contributes to the dynamic gastric epithelial apoptotic response. [World J Gastroenterol. 12: 5306-10.](#)

Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. 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:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)

Human Anti Mouse IgM (HCA040...) [FITC](#)

Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

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