

Datasheet: MCA948

Description:	RAT ANTI MOUSE DENDRITIC/INTERDIG. CELLS
Specificity:	DENDRITIC/INTERDIGITATING CELLS
Format:	S/N
Product Type:	Monoclonal Antibody
Clone:	MIDC-8
Isotype:	IgG2a
Quantity:	2 ml

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	▪			1/25
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. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate positive/negative controls.

Target Species	Mouse
Product Form	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Immunogen	Mouse lymph node stroma.
RRID	AB_322021
Fusion Partners	Spleen cells from immunized rats were fused with Sp2/0 myeloma cells.

Specificity

Rat anti Mouse dendritic/interdigitating cells antibody, clone MIDC-8 recognizes an antigen in the cytoplasm of rat dendritic cells as distinct spots near the nucleus.

Rat anti Mouse dendritic/interdigitating cells antibody, clone MIDC-8 does not stain thymic epithelial cells which are the major contaminants in thymic dendritic cell preparations. The antigen is also absent in blood cells, bone marrow cells and macrophages isolated from the peritoneal cavity.

The antigen recognized by Rat anti Mouse dendritic/interdigitating cells antibody, clone MIDC-8 is found in interdigitating cells in T cell dependent areas of secondary lymphoid organs, the medulla of thymus, veiled cells, and very weakly in Langerhans cells ([Breel et al. 1987](#)).

References

1. Breel, M. *et al.* (1987) Dendritic cells of the mouse recognized by two monoclonal antibodies. [Eur J Immunol. 17 \(11\): 1555-9.](#)
2. Schröder, N.W. *et al.* (2008) Innate immune responses during respiratory tract infection with a bacterial pathogen induce allergic airway sensitization. [J Allergy Clin Immunol. 122: 595-602.e5.](#)
3. Bobryshev, Y.V. *et al.* (2001) Evidence that dendritic cells infiltrate atherosclerotic lesions in apolipoprotein E-deficient mice. [Histol Histopathol. 16: 801-8.](#)
4. Serafini, B. *et al.* (2000) Intracerebral recruitment and maturation of dendritic cells in the onset and progression of experimental autoimmune encephalomyelitis. [Am J Pathol. 157: 1991-2002.](#)
5. Schulte, D.J. *et al.* (2009) Involvement of innate and adaptive immunity in a murine model of coronary arteritis mimicking Kawasaki disease. [J Immunol. 183: 5311-8.](#)
6. Stichel, C.C. and Luebbert, H. (2007) Inflammatory processes in the aging mouse brain: participation of dendritic cells and T-cells. [Neurobiol Aging. 28: 1507-21.](#)
7. Rezzani, R. *et al.* (2003) Cyclosporine-A treatment inhibits the expression of metabotropic glutamate receptors in rat thymus. [Acta Histochem. 105: 81-7.](#)
8. Naiki, Y. *et al.* (2008) TLR/MyD88 and LXR α Signaling Pathways Reciprocally Control Chlamydia Pneumoniae-Induced Acceleration of Atherosclerosis [J Immunol. 181: 7176-85.](#)
9. Martins, V.C. *et al.* (2008) Ltbetar signaling does not regulate Aire-dependent transcripts in medullary thymic epithelial cells. [J Immunol. 181: 400-7.](#)
10. Taraban, V.Y. *et al.* (2008) Invariant NKT cells promote CD8+ cytotoxic T cell responses by inducing CD70 expression on dendritic cells. [J Immunol. 180: 4615-20.](#)
11. Shimada, A. *et al.* (2006) Translocation pathway of the intratracheally instilled ultrafine particles from the lung into the blood circulation in the mouse. [Toxicol Pathol. 34: 949-57.](#)
12. Martino, M.C. *et al.* (2005) Mucosal lymphoid infiltrate dominates colonic pathological changes in murine experimental shigellosis. [J Infect Dis. 192: 136-48.](#)
13. Stepkowski, S.M. *et al.* (2006) Immature syngeneic dendritic cells potentiate tolerance to pancreatic islet allografts depleted of donor dendritic cells in microgravity culture condition. [Transplantation. 82: 1756-63.](#)
14. Anderson, K.L. *et al.* (2000) Transcription factor PU.1 is necessary for development of thymic and myeloid progenitor-derived dendritic cells. [J Immunol. 164: 1855-61.](#)
15. Columba-Cabezas, S. *et al.* (2003) Lymphoid chemokines CCL19 and CCL21 are expressed in the central nervous system during experimental autoimmune

encephalomyelitis: implications for the maintenance of chronic neuroinflammation. [Brain Pathol. 13: 38-51.](#)

16. Sorrentino, R. *et al.* (2015) A single infection with *Chlamydia pneumoniae* is sufficient to exacerbate atherosclerosis in ApoE deficient mice. [Cell Immunol. 294: 25-32.](#)

17. Zhao, X. *et al.* (2012) A combination of secondhand cigarette smoke and *Chlamydia pneumoniae* accelerates atherosclerosis. [Atherosclerosis. 222: 59-66.](#)

18. Takakura I *et al.* (2011) Orally administered prion protein is incorporated by m cells and spreads into lymphoid tissues with macrophages in prion protein knockout mice. [Am J Pathol. 179 \(3\): 1301-9.](#)

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.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10055 available at: 10055: <https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...) [FITC](#)
Goat Anti Rat IgG (STAR73...) [RPE](#)
Rabbit Anti Rat IgG (STAR16...) [DyLight®800](#)
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) [DyLight®650](#), [DyLight®800](#)
Goat Anti Rat IgG (STAR72...) [HRP](#)
Rabbit Anti Rat IgG (STAR21...) [HRP](#)
Rabbit Anti Rat IgG (STAR17...) [FITC](#)
Goat Anti Rat IgG (STAR131...) [Alk. Phos.](#), [Biotin](#)

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL \(MCA1212\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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'M389744:210806'

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