Datasheet: MCA190B

BATCH NUMBER 167446

Description:	MOUSE ANTI RAT IgD:Biotin
Specificity:	IgD
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	MARD-3
Isotype:	IgG1
Quantity:	0.5 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			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			250 ng/ml

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 negative/positive controls.

Target Species	Rat
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by immunoaffinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide 50% Glycerol
Approx. Protein Concentrations	IgG concentration 1 mg/ml

Immunogen	IR731 myeloma protein.
External Database Links	**UniProt:** P01883 Related reagents **Entrez Gene:** 641523 LOC641523 Related reagents
RRID	AB_322538
Fusion Partners	Spleen cells from an immunized BALB/c mouse were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	**Mouse anti Rat IgD antibody, clone MARD-3** recognizes rat IgD, and does not cross-react with other rat immunoglobulin classes.
References	1. Bazin, H. *et al.* (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. J Immunol. 121 (5): 2077-82. 2. Westermann, J. *et al.* (2005) Naive, effector, and memory T lymphocytes efficiently scan dendritic cells *in vivo*: contact frequency in T cell zones of secondary lymphoid organs does not depend on LFA-1 expression and facilitates survival of effector T cells. J Immunol. 174: 2517-24. 3. FrancoSalinas, G. *et al.* (2011) TNF blockade abrogates the induction of T cell-dependent humoral responses in an allotransplantation model. J Leukoc Biol. 90 (2): 367-75. 4. Zonneveld-Huijssoon, E. *et al.* (2011) Bystander suppression of experimental arthritis by nasal administration of a heat shock protein peptide. Ann Rheum Dis. 70: 2199-206. 5. Shin, J. *et al.* (2015) Development and pharmacological validation of novel methods of B cell activation in rat whole blood. J Pharmacol Toxicol Methods. 71: 61-7. 6. Bézie, S. *et al.* (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. J Immunol. 195 (12): 5805-15. 7. Hendricks, J. *et al.* (2019) The formation of mutated IgM memory B cells in rat splenic marginal zones is an antigen dependent process. PLoS One. 14 (9): e0220933. 8. Cai, Y. *et al.* (2024) Preclinical Pharmacology Characterization of Sovleplenib (HMPL-523), an Orally Available Syk Inhibitor. J Pharmacol Exp Ther. 388 (1): 156-70. 9. Ménoret, S. *et al.* (2020) *In Vivo* Analysis of Human Immune Responses in Immunodeficient Rats. Transplantation. 104 (4): 715-23.
Further Reading	1. Bazin, H. *et al.* (1974) Three classes and four (sub)classes of rat immunoglobulins: IgM, IgA, IgE and IgG1, IgG2a, IgG2b, IgG2c. Eur J Immunol. 4 (1): 44-8.
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 #10328 available at: https://www.bio-rad-antibodies.com/SDS/MCA190B 10328
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:Biotin (MCA1209B)

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

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

'M426573:240207'

Printed on 12 Sep 2024

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