

Datasheet: MCA190B

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 \(MCA1209B\)](#)

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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](https://www.bio-rad-antibodies.com/datasheets)

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