

Datasheet: MCA190

BATCH NUMBER 173675

Description:	MOUSE ANTI RAT IgD
Specificity:	IgD
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MARD-3
Isotype:	IgG1
Quantity:	0.25 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	▪			
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.

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

Immunogen	IR731 myeloma protein.
External Database Links	<p>UniProt: P01883 Related reagents</p> <p>Entrez Gene: 641523 LOC641523 Related reagents</p>
RRID	AB_322200
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.
ELISA	This antibody may be used as a coating antibody in a sandwich ELISA in combination with clone MARK-1/MARL-15 (Product code MCA1296P) as detection reagent.
References	<ol style="list-style-type: none"> 1. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. J Immunol. 121 (5): 2077-82. 2. Westermann, J. <i>et al.</i> (2005) Naive, effector, and memory T lymphocytes efficiently scan dendritic cells <i>in vivo</i>: 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. <i>et al.</i> (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. <i>et al.</i> (2011) Bystander suppression of experimental arthritis by nasal administration of a heat shock protein peptide. Ann Rheum Dis. 70: 2199-206. 5. Shin, J. <i>et al.</i> (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. <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. J Immunol. 195 (12): 5805-15. 7. Hendricks, J. <i>et al.</i> (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. <i>et al.</i> (2024) Preclinical Pharmacology Characterization of Sovleplenib (HMPL-523), an Orally Available Syk Inhibitor. J Pharmacol Exp Ther. 388 (1): 156-70. 9. Ménoret, S. <i>et al.</i> (2020) <i>In Vivo</i> Analysis of Human Immune Responses in Immunodeficient Rats. Transplantation. 104 (4): 715-23.
Further Reading	1. Bazin, H. <i>et al.</i> (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 #10303 available at: https://www.bio-rad-antibodies.com/SDS/MCA190
--------------------------------------	--

Regulatory	For research purposes only
-------------------	----------------------------

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA1209\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

'M449788:260213'

Printed on 15 Apr 2026