

## Datasheet: MCA190

**BATCH NUMBER 173073**

<b>Description:</b>	MOUSE ANTI RAT IgD
<b>Specificity:</b>	IgD
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	MARD-3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

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

<b>Immunogen</b>	IR731 myeloma protein.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01883</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">641523</a>    LOC641523    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_322200
<b>Fusion Partners</b>	Spleen cells from an immunized BALB/c mouse were fused with cells of the mouse SP2/0 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Rat IgD antibody, clone MARD-3</b> recognizes rat IgD, and does not cross-react with other rat immunoglobulin classes.
<b>ELISA</b>	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.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <a href="#">J Immunol. 121 (5): 2077-82.</a></li> <li>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. <a href="#">J Immunol. 174: 2517-24.</a></li> <li>3. FrancoSalinas, G. <i>et al.</i> (2011) TNF blockade abrogates the induction of T cell-dependent humoral responses in an allotransplantation model. <a href="#">J Leukoc Biol. 90 (2): 367-75.</a></li> <li>4. Zonneveld-Huijssoon, E. <i>et al.</i> (2011) Bystander suppression of experimental arthritis by nasal administration of a heat shock protein peptide. <a href="#">Ann Rheum Dis. 70: 2199-206.</a></li> <li>5. Shin, J. <i>et al.</i> (2015) Development and pharmacological validation of novel methods of B cell activation in rat whole blood. <a href="#">J Pharmacol Toxicol Methods. 71: 61-7.</a></li> <li>6. Bézie, S. <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. <a href="#">J Immunol. 195 (12): 5805-15.</a></li> <li>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. <a href="#">PLoS One. 14 (9): e0220933.</a></li> <li>8. Cai, Y. <i>et al.</i> (2024) Preclinical Pharmacology Characterization of Sovleplenib (HMPL-523), an Orally Available Syk Inhibitor. <a href="#">J Pharmacol Exp Ther. 388 (1): 156-70.</a></li> <li>9. Ménoret, S. <i>et al.</i> (2020) <i>In Vivo</i> Analysis of Human Immune Responses in Immunodeficient Rats. <a href="#">Transplantation. 104 (4): 715-23.</a></li> </ol>
<b>Further Reading</b>	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. <a href="#">Eur J Immunol. 4 (1): 44-8.</a>
<b>Storage</b>	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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA190">https://www.bio-rad-antibodies.com/SDS/MCA190</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

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

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)

'M383303:210513'

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