

## Datasheet: MCA199B

**BATCH NUMBER 160899**

<b>Description:</b>	RAT ANTI MOUSE IgM HEAVY CHAIN:Biotin
<b>Specificity:</b>	IgM HEAVY CHAIN
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MM-9
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			250ng/ml
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 negative/positive controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on mouse IgM/Sepharose 4B from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> ) 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml

<b>Immunogen</b>	Polyclonal and monoclonal mouse IgM.
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P01872</a>     <a href="#">Related reagents</a></p> <p><a href="#">P01873</a>     <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">16019</a> Ighm   <a href="#">Related reagents</a></p> <p><a href="#">16019</a> Ighm   <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_321870
<b>Fusion Partners</b>	Spleen cells from immunized LOU/c rats were fused with cells of the IR983F rat myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse IgM, clone LO-MM-9</b> is directed against the mu chain of mouse IgM.
<b>ELISA</b>	This product may be used in an indirect ELISA or as a secondary reagent in a sandwich ELISA together with <a href="#">MCA1293</a> as the capture reagent and and Streptavidin:HRP ( <a href="#">STAR5B</a> ) as the detection reagent.
<b>References</b>	<ol style="list-style-type: none"> <li>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></li> <li>2. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. <a href="#">J Immunol Methods. 71: 9-16.</a></li> <li>3. Busund, L.T. <i>et al.</i> (2003) Spontaneously formed tumorigenic hybrids of Meth A sarcoma cells and macrophages <i>in vivo</i>. <a href="#">Int J Cancer. 106 (2): 153-9.</a></li> <li>4. Achtman AH <i>et al.</i> (2003) <i>Plasmodium chabaudi chabaudi</i> infection in mice induces strong B cell responses and striking but temporary changes in splenic cell distribution. <a href="#">J Immunol. 171 (1): 317-24.</a></li> <li>5. Huang, C.H. <i>et al.</i> (2011) Airway inflammation and IgE production induced by dust mite allergen-specific memory/effector Th2 cell line can be effectively attenuated by IL-35. <a href="#">J Immunol. 187: 462-71.</a></li> <li>6. Bermejo, D.A. <i>et al.</i> (2011) <i>Trypanosoma cruzi</i> infection induces a massive extrafollicular and follicular splenic B-cell response which is a high source of non-parasite-specific antibodies. <a href="#">Immunology. 132 (1): 123-33.</a></li> <li>7. Sreekanthreddy, P. <i>et al.</i> (2015) A three-dimensional model of the human blood-brain barrier to analyse the transport of nanoparticles and astrocyte/endothelial interactions. <a href="#">F1000Res. 4: 1279.</a></li> </ol>
<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10328 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA199B>  
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**Regulatory** For research purposes only

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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://bio-rad-antibodies.com/datasheets)  
'M383379:210513'

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