

## Datasheet: MCA1293

**BATCH NUMBER 170203**

<b>Description:</b>	RAT ANTI MOUSE IgM HEAVY CHAIN
<b>Specificity:</b>	IgM HEAVY CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MM-3
<b>Isotype:</b>	IgM
<b>Quantity:</b>	1 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	▪			5ug/ml (coating)
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. 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 IgM - liquid
<b>Preparation</b>	Purified IgM 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
<b>Approx. Protein</b>	Isotype concentration 1 mg/ml

## Concentrations

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Immunogen	Polyclonal mouse IgM.
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## External Database Links

### UniProt:

[P01873](#)      [Related reagents](#)

[P01872](#)      [Related reagents](#)

### Entrez Gene:

[16019](#)    Ighm    [Related reagents](#)

[16019](#)    Ighm    [Related reagents](#)

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RRID	AB_321868
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Fusion Partners	Spleen cells from immunized Lou/c rats were fused with cells of the rat IR983F myeloma cell line.
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Specificity	<b>Rat anti Mouse IgM heavy chain</b> recognizes murine IgM (mu heavy chain) and does not cross react with other murine immunoglobulin classes or subclasses.
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Avidity =  $2 \times 10^8 \text{ M}^{-1}$

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ELISA	This antibody may be used as a coating antibody in sandwich ELISA in combination with LO-MM-9 ( <a href="#">MCA199B</a> ) and Streptavidin:HRP ( <a href="#">STAR5B</a> ) as the detection reagents.
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References	<ol style="list-style-type: none"><li>1. Savignac, M. <i>et al.</i> (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. <a href="#">J Immunol. 185:7527-36.</a></li><li>2. 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></ol>
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Storage	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
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Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1293">https://www.bio-rad-antibodies.com/SDS/MCA1293</a> 10040
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Regulatory	For research purposes only
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## Related Products

## Recommended Secondary Antibodies

Goat Anti Rat IgM (302001...) [Biotin](#)

Goat Anti Rat IgM (STAR116...) [HRP](#)

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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)  
'M365097:200529'

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