

## Datasheet: MCA1293

**BATCH NUMBER 169965**

<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 product 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 product 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 (NaN <sub>3</sub> )
<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** **Rat anti Mouse IgM heavy chain** recognizes murine IgM (mu heavy chain) and does not cross react with other murine immunoglobulin classes or subclasses.

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 ([MCA199B](#)) and Streptavidin:HRP ([STAR5B](#)) as the detection reagents.

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**References**

1. Savignac, M. *et al.* (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. [J Immunol. 185:7527-36.](#)
2. Huang, C.H. *et al.* (2011) Airway inflammation and IgE production induced by dust mite allergen-specific memory/effector Th2 cell line can be effectively attenuated by IL-35. [J Immunol. 187: 462-71.](#)
3. Wu, J. *et al.* (2022) A p38 $\alpha$ -BLIMP1 signalling pathway is essential for plasma cell differentiation. [Nat Commun. 13 \(1\): 7321.](#)

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**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.

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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: <https://www.bio-rad-antibodies.com/SDS/MCA1293>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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

**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)

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