

Datasheet: MCA199B

Description:	RAT ANTI MOUSE IgM HEAVY CHAIN:Biotin
Specificity:	IgM HEAVY CHAIN
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	LO-MM-9
Isotype:	IgG2a
Quantity:	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.

	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.

Target Species	Mouse
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on mouse IgM/Sepharose 4B from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	0.1% Sodium Azide (NaN ₃)
Stabilisers	50% Glycerol
Approx. Protein Concentrations	IgG concentration 1 mg/ml
Immunogen	Polyclonal and monoclonal mouse IgM.
External Database Links	UniProt: P01872 Related reagents

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

Entrez Gene:

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

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Fusion Partners Spleen cells from immunised LOU/c rats were fused with cells of the IR983F rat myeloma cell line.

Specificity **Rat anti Mouse IgM, clone LO-MM-9** is directed against the mu chain of mouse IgM.

ELISA This product may be used in an indirect ELISA or as a secondary reagent in a sandwich ELISA together with [MCA1293](#) as the capture reagent and and Streptavidin:HRP ([STAR5B](#)) as the detection reagent.

References

1. Achtman AH *et al.* (2003) *Plasmodium chabaudi chabaudi* infection in mice induces strong B cell responses and striking but temporary changes in splenic cell distribution. [J Immunol. 171 \(1\): 317-24.](#)
2. Bazin, H. *et al.* (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. [J Immunol Methods. 71: 9-16.](#)
3. Bazin, H. *et al.* (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.](#)
4. Bermejo, D.A. *et al.* (2011) *Trypanosoma cruzi* infection induces a massive extrafollicular and follicular splenic B-cell response which is a high source of non-parasite-specific antibodies. [Immunology. 132 \(1\): 123-33.](#)
5. Busund, L.T. *et al.* (2003) Spontaneously formed tumorigenic hybrids of Meth A sarcoma cells and macrophages *in vivo*. [Int J Cancer. 106 \(2\): 153-9.](#)
6. 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.](#)
7. Sreekanthreddy, P. *et al.* (2015) A three-dimensional model of the human blood-brain barrier to analyse the transport of nanoparticles and astrocyte/endothelial interactions. [F1000Res. 4: 1279.](#)

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.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10328 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf>

Regulatory For research purposes only

North & South America Tel: +1 800 265 7376

Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

