

Datasheet: MCA336P

BATCH NUMBER 146424

Description:	RAT ANTI MOUSE IgG1 HEAVY CHAIN:HRP
Specificity:	IgG1 HEAVY CHAIN
Format:	HRP
Product Type:	Monoclonal Antibody
Clone:	LO-MG1-2
Isotype:	IgG1
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
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			500ng/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 Horseradish Peroxidase (HRP) - liquid
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.01% Thiomersal 50% Glycerol
Approx. Protein Concentrations	IgG concentration 1 mg/ml

Immunogen Purified mouse IgG1 from BALB/c mice

External Database

Links

UniProt:

[P01869](#) [Related reagents](#)

[P01868](#) [Related reagents](#)

Entrez Gene:

[16017](#) Ighg1 [Related reagents](#)

[16017](#) Ighg1 [Related reagents](#)

Synonyms Igh-4

RRID AB_321957

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

Specificity **Rat anti Mouse IgG1 Heavy Chain antibody, clone LO-MG1-2** recognizes murine IgG1, and does not bind other mouse immunoglobulin classes or subclasses.

ELISA This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with [MCA1289](#) as the capture reagent.

References

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12. Kretschmer, B. *et al.* (2015) Anti-CD83 promotes IgG1 isotype switch in marginal zone B cells in response to TI-2 antigen. [Immunobiology. 220 \(8\): 964-75.](#)
13. Doerfler, P.A. *et al.* (2016) Copackaged AAV9 Vectors Promote Simultaneous Immune Tolerance and Phenotypic Correction of Pompe Disease. [Hum Gene Ther. 27 \(1\): 43-59.](#)
14. Kato, G. *et al.* (2014) β 2 adrenergic agonist attenuates house dust mite-induced allergic airway inflammation through dendritic cells. [BMC Immunol. 15: 39.](#)
15. Margaroni, M. *et al.* (2017) Vaccination with poly(D,L-lactide-co-glycolide) nanoparticles loaded with soluble *Leishmania* antigens and modified with a TNF α -mimicking peptide or monophosphoryl lipid A confers protection against experimental visceral leishmaniasis. [Int J Nanomedicine. 12: 6169-84.](#)
16. DeGiovanni, C. *et al.* (2019) Cancer Vaccines Co-Targeting HER2/Neu and IGF1R. [Cancers \(Basel\). 11 \(4\) Apr 11 \[Epub ahead of print\].](#)
17. Doshi, B.S. *et al.* (2021) B cell-activating factor modulates the factor VIII immune response in hemophilia A. [J Clin Invest. 131\(8\):142906.](#)

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10097 available at: <https://www.bio-rad-antibodies.com/SDS/MCA336P10097>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

North & South Tel: +1 800 265 7376

America 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

'M367587:200529'

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

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