

Datasheet: MCA336B

BATCH NUMBER 180220

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| Description: | RAT ANTI MOUSE IgG1 HEAVY CHAIN:Biotin |
| Specificity: | IgG1 HEAVY CHAIN |
| Format: | Biotin |
| 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 |
|----------------------------|-----|----|----------------|--------------------|
| Flow Cytometry | | | ▪ | |
| Immunohistology - Frozen | | | ▪ | |
| Immunohistology - Paraffin | | | ▪ | |
| ELISA | ▪ | | | 5 ug/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.

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| Target Species | Mouse |
| Product Form | Purified IgG conjugated to Biotin - liquid |
| Preparation | Purified IgG prepared by affinity chromatography from tissue culture supernatant |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | 0.1% Sodium Azide 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_321955

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.

References

1. Song, J. *et al.* (2000) Heterogeneous distribution of isoactins in cultured vascular smooth muscle cells does not reflect segregation of contractile and cytoskeletal domains. [J Histochem Cytochem. 48 \(11\): 1441-52.](#)
2. Denis, O. *et al.* (1993) Resting B cells can act as antigen presenting cells in vivo and induce antibody responses. [Int Immunol. 5 \(1\): 71-8.](#)
3. Nakanishi, S. *et al.* (2010) Sequence analysis of a bacteriocinogenic plasmid of *Clostridium butyricum* and expression of the bacteriocin gene in *Escherichia coli*. [Anaerobe. 16: 253-7.](#)
4. Echeverria, P.C. *et al.* (2006) Potent antigen-specific immunity to *Toxoplasma gondii* in adjuvant-free vaccination system using Rop2-Leishmania infantum Hsp83 fusion protein. [Vaccine. 24: 4102-10.](#)
5. 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.](#)
6. Agallou, M. *et al.* (2014) Experimental Validation of Multi-Epitope Peptides Including Promising MHC Class I- and II-Restricted Epitopes of Four Known *Leishmania infantum* Proteins. [Front Immunol. 5: 268.](#)
7. Doerfler, P.A. *et al.* (2015) BAFF Blockade Prevents Anti-Drug Antibody Formation in a Mouse Model of Pompe Disease. [Clin Immunol. pii: S1521-6616\(15\)00125-4.](#)
8. Ramos, J.D.A. *et al.* (2009) Characterization of 11 Monoclonal Antibodies with Constant Region Mutations *Phil Sci Lett.* 2(1): 38-48
9. Blackwell, N.M. & Else, K.J. (2002) A comparison of local and peripheral parasite-specific antibody production in different strains of mice infected with *Trichuris muris*. [Parasite Immunol. 24 \(4\): 203-11.](#)
10. Hall, G. *et al.* (2003) Suppression of allergen reactive Th2 mediated responses and pulmonary eosinophilia by intranasal administration of an immunodominant peptide is linked to IL-10 production. [Vaccine. 21 \(5-6\): 549-61.](#)

11. Hjerpe, C. *et al.* (2010) Dendritic cells pulsed with malondialdehyde modified low density lipoprotein aggravate atherosclerosis in Apoe(-/-) mice. [Atherosclerosis. 209 \(2\): 436-41.](#)
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 #10328 available at: <https://www.bio-rad-antibodies.com/SDS/MCA336B>
10328

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://www.bio-rad-antibodies.com/datasheets)
'M367585:200529'

Printed on 29 Mar 2024

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