

## Datasheet: MCA336P

<b>Description:</b>	RAT ANTI MOUSE IgG1 HEAVY CHAIN:HRP
<b>Specificity:</b>	IgG1 HEAVY CHAIN
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MG1-2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.01% Thiomersal
<b>Stabilisers</b>	50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml
<b>Immunogen</b>	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](#)

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<b>Synonyms</b>	Igh-4
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<b>RRID</b>	AB_321957
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<b>Fusion Partners</b>	Spleen cells from immunised LOU/c rats were fused with cells of the rat IR983F myeloma cell line.
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<b>Specificity</b>	<b>Rat anti Mouse IgG1 Heavy Chain antibody, clone LO-MG1-2</b> recognizes murine IgG1, and does not bind other mouse immunoglobulin classes or subclasses.
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<b>ELISA</b>	This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with <a href="#">MCA1289</a> as the capture reagent.
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<b>References</b>	<ol style="list-style-type: none"><li>1. Denis, O. <i>et al.</i> (1993) Resting B cells can act as antigen presenting cells in vivo and induce antibody responses. <a href="#">Int Immunol. 5 (1): 71-8.</a></li><li>2. Song, J. <i>et al.</i> (2000) Heterogeneous distribution of isoactins in cultured vascular smooth muscle cells does not reflect segregation of contractile and cytoskeletal domains. <a href="#">J Histochem Cytochem. 48 (11): 1441-52.</a></li><li>3. Blackwell, N.M. &amp; Else, K.J. (2002) A comparison of local and peripheral parasite-specific antibody production in different strains of mice infected with <i>Trichuris muris</i>. <a href="#">Parasite Immunol. 24 (4): 203-11.</a></li><li>4. Hall, G. <i>et al.</i> (2003) Suppression of allergen reactive Th2 mediated responses and pulmonary eosinophilia by intranasal administration of an immunodominant peptide is linked to IL-10 production. <a href="#">Vaccine. 21 (5-6): 549-61.</a></li><li>5. Echeverria, P.C. <i>et al.</i> (2006) Potent antigen-specific immunity to <i>Toxoplasma gondii</i> in adjuvant-free vaccination system using Rop2-<i>Leishmania infantum</i> Hsp83 fusion protein. <a href="#">Vaccine. 24: 4102-10.</a></li><li>6. Ramos, J.D.A. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations <i>Phil Sci Lett.</i> 2(1): 38-48</li><li>7. Nakanishi, S. <i>et al.</i> (2010) Sequence analysis of a bacteriocinogenic plasmid of <i>Clostridium butyricum</i> and expression of the bacteriocin gene in <i>Escherichia coli</i>. <a href="#">Anaerobe. 16: 253-7.</a></li><li>8. Hjerpe, C. <i>et al.</i> (2010) Dendritic cells pulsed with malondialdehyde modified low density lipoprotein aggravate atherosclerosis in Apoe(-/-) mice. <a href="#">Atherosclerosis. 209 (2): 436-41.</a></li><li>9. 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><li>10. Agallou, M. <i>et al.</i> (2014) Experimental Validation of Multi-Epitope Peptides Including</li></ol>
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Promising MHC Class I- and II-Restricted Epitopes of Four Known *Leishmania infantum* Proteins. [Front Immunol. 5: 268.](#)

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13. 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.](#)
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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 $\alpha$ -mimicking peptide or monophosphoryl lipid A confers protection against experimental visceral leishmaniasis. [Int J Nanomedicine. 12: 6169-84.](#)
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21. Petta, I. *et al.* (2024) Myeloid A20 is critical for alternative macrophage polarization and type-2 immune mediated helminth resistance [Front Immunol. 15: 21 Mar \[Epub ahead of print\]](#)

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<b>Storage</b>	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.
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Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10097 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA336P">https://www.bio-rad-antibodies.com/SDS/MCA336P</a> 10097
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

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

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

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

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**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto:antibody_sales_de@bio-rad.com)

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)

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