

## Datasheet: MCA336F

<b>Description:</b>	RAT ANTI MOUSE IgG1 HEAVY CHAIN:FITC
<b>Specificity:</b>	IgG1 HEAVY CHAIN
<b>Format:</b>	FITC
<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
Flow Cytometry	▪			5ug/ml
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	

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 Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
<b>Max Ex/Em</b>	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
<b>Preparation</b>	Purified IgG prepared by affinity chromatography from tissue culture supernatant						
<b>Buffer Solution</b>	Phosphate buffered saline						
<b>Preservative</b>	0.1% Sodium Azide						
<b>Stabilisers</b>	50% Glycerol						
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml						
<b>Immunogen</b>	Purified mouse IgG1 from BALB/c mice						
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01869</a> <a href="#">Related reagents</a>						

**Entrez Gene:**

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

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

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<b>Synonyms</b>	Igh-4
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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>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul
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<b>References</b>	<ol style="list-style-type: none"><li>1. 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>2. 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>3. 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>4. Echeverria, P.C. <i>et al.</i> (2006) Potent antigen-specific immunity to <i>Toxoplasma gondii</i> in adjuvant-free vaccination system using Rop2-Leishmania infantum Hsp83 fusion protein. <a href="#">Vaccine. 24: 4102-10.</a></li><li>5. 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>6. Agallou, M. <i>et al.</i> (2014) Experimental Validation of Multi-Epitope Peptides Including Promising MHC Class I- and II-Restricted Epitopes of Four Known <i>Leishmania infantum</i> Proteins. <a href="#">Front Immunol. 5: 268.</a></li><li>7. Doerfler, P.A. <i>et al.</i> (2015) BAFF Blockade Prevents Anti-Drug Antibody Formation in a Mouse Model of Pompe Disease. <a href="#">Clin Immunol. pii: S1521-6616(15)00125-4.</a></li><li>8. Ramos, J.D.A. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations <a href="#">Phil Sci Lett. 2(1): 38-48.</a></li><li>9. 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>10. 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>11. 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>12. Kretschmer, B. <i>et al.</i> (2015) Anti-CD83 promotes IgG1 isotype switch in marginal zone B cells in response to TI-2 antigen. <a href="#">Immunobiology. 220 (8): 964-75.</a></li><li>13. Doerfler, P.A. <i>et al.</i> (2016) Copackaged AAV9 Vectors Promote Simultaneous Immune Tolerance and Phenotypic Correction of Pompe Disease. <a href="#">Hum Gene Ther. 27 (1): 43-59.</a></li><li>14. Kato, G. <i>et al.</i> (2014) <math>\beta</math>2 adrenergic agonist attenuates house dust mite-induced allergic airway inflammation through dendritic cells. <a href="#">BMC Immunol. 15: 39.</a></li><li>15. Margaroni, M. <i>et al.</i> (2017) Vaccination with poly(D,L-lactide-co-glycolide) nanoparticles loaded with soluble <i>Leishmania</i> antigens and modified with a TNF<math>\alpha</math>-mimicking peptide or monophosphoryl</li></ol>
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lipid A confers protection against experimental visceral leishmaniasis. [Int J Nanomedicine. 12: 6169-84.](#)

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**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. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

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

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:FITC \(MCA1211F\)](#)

### Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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