Datasheet: MCA336B

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.

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
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 Blo t 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) β2 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 TNFα-mimicking peptide or monophosphoryl lipid A confers protection against experimental visceral leishmaniasis. Int J Nanomedicine. 12: 6169-84.

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 #10328 available at: 10328: https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf
Regulatory	For research purposes only

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