

Datasheet: MCA421B BATCH NUMBER 164693

Description:	RAT ANTI MOUSE IgG2a HEAVY CHAIN:Biotin		
Specificity:	IgG2a HEAVY CHAIN		
Format:	Biotin		
Product Type:	Monoclonal Antibody		
Clone:	LO-MG2a-7		
Isotype:	lgG1		
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	•			0.5ug/ml - 1.0ug/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

External Database Links

UniProt:

P01863Related reagentsP01865Related reagentsP01864Related reagents

Entrez Gene:

<u>380793</u>	lgh-1a	Related reagents
<u>380793</u>	lgh-1a	Related reagents
380793	lgh-1a	Related reagents

RRID

AB_321823

Fusion Partners

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

Specificity

Rat anti Mouse IgG2a:Biotin, clone LO-MG2a-7 recognizes the gamma 2a heavy chain of mouse immunoglobulin and does not cross-react with other murine immunoglobulin classes or subclasses. Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-7 recognizes an allotypic determinant upon mouse IgG2a. It recognizes the IgHIa allotype (as expressed in Balb/c mice), but not the IgHIb allotype (as expressed in C57/BL mice).

References

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- 2. Bazin, H. *et al.* (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. J Immunol Methods. 66 (2): 261-9.
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- 4. Ormstad, H. *et al.* (2000) The fungal cell wall component beta-1,3-glucan has an adjuvant effect on the allergic response to ovalbumin in mice. <u>J Toxicol Environ Health A.</u> 61: 55-67.
- 5. Nagao, K. *et al.* (2003) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. Am J Respir Cell Mol Biol. 29: 314-20.
- 6. Ormstad, H. *et al.* (2003) The effect of endotoxin on the production of IgE, IgG1 and IgG2a antibodies against the cat allergen Fel d 1 in mice Toxicology. 188: 309-18.
- 7. 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. <u>Vaccine</u>. 21: 549-61.
- 8. Wolfowicz, C.B. *et al.* (2003) Expression and immunogenicity of the major house dust mite allergen Der p 1 following DNA immunization. Vaccine. 21: 1195-204.
- 9. Tan, L.K. *et al.* (2006) Intramuscular immunization with DNA construct containing Der p 2 and signal peptide sequences primed strong IgE production. Vaccine. 24: 5762-71.
- 10. Ramos, J.D.A. *et al.* (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations Phil Sci Lett 2: 38-48.
- 11. Liedén, A. et al. (2009) Cornulin, a marker of late epidermal differentiation, is

down-regulated in eczema. Allergy. 64:304-11.

- 12. Hayes, K.S. et al. (2017) Chronic Trichuris muris infection causes neoplastic change in the intestine and exacerbates tumour formation in APC min/+ mice. PLoS Negl Trop Dis. 11 (6): e0005708.
- 13. DeGiovanni, C. et al. (2019) Cancer Vaccines Co-Targeting HER2/Neu and IGF1R. Cancers (Basel). 11 (4) Apr 11 [Epub ahead of print].
- 14. Steel, N. et al. (2019) TGFβ-activation by dendritic cells drives Th17 induction and intestinal contractility and augments the expulsion of the parasite Trichinella spiralis. in mice. PLoS Pathog. 15 (4): e1007657.

Further Reading

1. Querinjean, P. et al. (1972) Transplantable immunoglobulin-secreting tumours in rats. Purification and chemical characterization of four kappa chains from LOU-Wsl rats. Eur J Biochem. 31 (2): 354-9.

Storage

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.

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

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/MCA421B 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 'M384499:210513'

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