Datasheet: MCA421B BATCH NUMBER 157416

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	•			
	information. For general		ecommen	dations, please visit y	www.bio-
	rad-antibodies.com/proto	<u>cols</u> .			
		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 te	echnique this does not
	necessarily exclude its us	se in such	procedu	res. Suggested worki	ng dilutions are given as
	a guide only. It is recomm	nended th	at the use	er titrates the antibod	y for use in their own
	system using appropriate	negative	/positive o	controls.	-
Target Species	Mouse				
Product Form	Purified IgG conjugated t	o Biotin -	liquid		
Preparation	Purified IgG prepared by	affinity ch	nromatogr	aphy from tissue cult	ure supernatant
Buffer Solution	Phosphate buffered salin	е			
Preservative	0.1% Sodium Azide				
Stabilisers	50% Glycerol				
Approx. Protein Concentrations	IgG concentration 1 mg/n	nl			

Immunogen	Purified IgG from BALB/c mice.
External Database Links	UniProt:
	P01863 Related reagents
	P01865 Related reagents
	P01864 Related reagents
	<u>·····································</u>
	Entrez Gene:
	<u>380793</u> Igh-1a <u>Related reagents</u>
	380793 Igh-1a Related reagents
	<u>380793</u> Igh-1a <u>Related reagents</u>
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	 Jarman, E.R. & Lamb, J.R. (2004) Reversal of established CD4+ type 2 T helper- mediated allergic airway inflammation and eosinophilia by therapeutic treatment with DNA vaccines limits progression towards chronic inflammation and remodelling. <u>Immunology.</u> <u>112 (4): 631-42.</u> Bazin, H. (1982) Production of rat monoclonal antibodies with the LOU rat non secreting IR983F myeloma cell line. Prot Biol Fluids 615 - 8. Pergamon Press, Oxford and New York. Nagao, K. <i>et al.</i> (2003) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. <u>Am J Respir Cell Mol Biol. 29: 314-20.</u> Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. <u>J Immunol Methods. 66 (2): 261-9.</u> Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. <u>J Immunol Methods. 71 (1): 9-16.</u> Ramos, J.D.A. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations Phil Sci Lett 2: 38-48. Ormstad, H. <i>et al.</i> (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> <u>61: 55-67.</u> 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. <u>Vaccine, 21: 549-61.</u>

p 2 and signal peptide sequences primed strong IgE production. <u>Vaccone</u> , 24: 5762-71. 11. Instanes, C. and Hetland, G. (2004) Deoxynivalenol (DON) is toxic to human colonic, lung and monocytic cell lines, but does not increase the IgE response in a mouse model for allergy. <u>Toxicology. 204: 13-21</u> . 12. Liedén, A. <i>et al.</i> (2003) Cornulin, a marker of late epidermal differentiation, is down-regulated in eczema. <u>Allergy. 64:304-11</u> . 13. Wolfowicz, C. B. <i>et al.</i> (2003) Expression and immunogenicity of the major house dus mite allergen Der p 1 following DNA immunization. <u>Vaccine. 21: 1195-204</u> . 14. Hayes, K.S. <i>et al.</i> (2017) Chronic <i>Trichuris muris</i> infection causes neoplastic change i the intestine and exacerbates tumour formation in APC min/+ mice. <u>PLoS Negl Trop Dis.</u> <u>11 (6): e0005708</u> . 15. DeGiovanni, C. <i>et al.</i> (2019) Cancer Vaccines Co-Targeting HER2/Neu and IGF1R. <u>Cancers (Basel). 11 (4) Apr 11 [Epub ahead of print].</u> Further Reading 1. Querinjean, P. <i>et al.</i> (1972) Transplantable immunoglobulin-secreting tumours in rats. Purification and chemical characterization of four kappa chains from LOU-WsI rats. <u>Eur J</u> Biochem. <u>31 (2): 354-9.</u> Storege Storege 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 Material Safety Datasheet documentation #10328 available at: <a href="https://www.bio-rad-antibodi</th><th>Health A
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Email: antibody_sales_de@bio-rad.com</th></tr><tr><th>11. Instanes, C. and Hetland, G. (2004) Deoxynivalenol (DON) is toxic to human colonic, lung and monocytic cell lines, but does not increase the IgE response in a mouse model for allergy. Toxicology. 204: 13-21. 12. Liedén, A. <i>et al.</i> (2009) Comulin, a marker of late epidermal differentiation, is down-regulated in eczema. Allergy, 64:304-11. 13. Wolfowicz, C. B. <i>et al.</i> (2003) Expression and immunogenicity of the major house dusi mite allergen Der p 1 following DNA immunization. Vaccine, 21: 1195-204. 14. Hayes, K.S. <i>et al.</i> (2017) Chronic <i>Trichuris muris</i> infection causes neoplastic change i the intestine and exacerbates tumour formation in APC min/+ mice. PLoS Neol Trop Dis. 11 (6): e0005708. 15. DeGiovanni, C. <i>et al.</i> (2019) Cancer Vaccines Co-Targeting HER2/Neu and IGF1R. Cancers (Basel). 11 (4) Apr 11 [Epub ahead of print]. Further Reading 1. Querinjean, P. <i>et al.</i> (1972) Transplantable immunoglobulin-secreting tumours in rats. Purification and chemical characterization of four kappa chains from LOU-WsI rats. Eur J Biochem. 31 (2): 354-9. Storage 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 Material Safety Datasheet documentation #10328 available at: https://www.bio.rad-antibodies.com/SDS/MCA421B 10328 Regulatory For research purposes only entric Fax +4190 88 8080 95 21 Fax +4198 878 3751</th><th>Health A
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