Datasheet: MCA421P BATCH NUMBER 165826

Description:	RAT ANTI MOUSE IgG2a HEAVY CHAIN:HRP
Specificity:	IgG2a HEAVY CHAIN
Format:	HRP
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 <u>www.bio-</u>						
	rad-antibodies.com/proto	<u>cois</u> . Yes	No	Not Determined	Suggested Dilution		
	Immunohistology - Frozen	Tes	NO	Not Determined	Suggested Dilution		
	Immunohistology - Prozen			-			
	ELISA	-		-	0.5ug/ml		
	Western Blotting				0.5ug/m		
	, and the second s	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 giv a guide only. It is recommended that the user titrates the antibody for use in their ov system using appropriate negative/positive controls.						
Target Species	Mouse						
Product Form	Purified IgG conjugated t	o Horsera	idish Pero	xidase (HRP) - liquid			
Preparation	Purified IgG prepared by	affinity ch	nromatogra	aphy from tissue cultu	re supernatant		
Buffer Solution	Phosphate buffered salin	e					
Preservative Stabilisers	0.01% Thiomersal 50% Glycerol						
Approx. Protein Concentrations	IgG concentration 1 mg/r	nl					

Immunogen	Purified IgG from BALB/c mice.
External Database Links	UniProt:
	P01863 Related reagents
	P01865 Related reagents
	P01864 Related reagents
	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_321825
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	 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. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. J Immunol Methods. 66 (2): 261-9. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. J Immunol Methods. 71 (1): 9-16. 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. J Toxicol Environ Health A. 61: 55-67. Nagao, K. <i>et al.</i> (2003) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. Am J Respir Cell Mol Biol. 29: 314-20. Ormstad, H. <i>et al.</i> (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. 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. Vaccine. 21: 549-61. Wolfowicz, C.B. <i>et al.</i> (2006) Intramuscular immunization. Vaccine. 21: 1195-204. Tan, L.K. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations Phil Sci Lett 2: 38- 48. Liedén, A. <i>et al.</i> (2009) Cornulin, a marker of late epidermal differentiation, is

	 down-regulated in eczema. <u>Allergy. 64:304-11.</u> 12. Hayes, K.S. <i>et al.</i> (2017) Chronic <i>Trichuris muris</i> infection causes neoplastic change in the intestine and exacerbates tumour formation in APC min/+ mice. <u>PLoS Negl Trop Dis.</u> <u>11 (6): e0005708.</u> 13. 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> 14. Steel, N. <i>et al.</i> (2019) TGFβ-activation by dendritic cells drives Th17 induction and intestinal contractility and augments the expulsion of the parasite <i>Trichinella spiralis.</i> in mice. <u>PLoS Pathog. 15 (4): e1007657.</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> <u>Biochem. 31 (2): 354-9.</u>			
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 #10097 available at: https://www.bio-rad-antibodies.com/SDS/MCA421P 10097			
Regulatory	For research purposes only			

Related Products

Recommended Useful Reagents

AbGUARD® HRP STABILIZER PLUS (BUF052A) AbGUARD® HRP STABILIZER PLUS (BUF052B) AbGUARD® HRP STABILIZER PLUS (BUF052C) TMB CORE (BUF056A) TMB CORE+ (BUF062A) TMB SIGNAL+ (BUF054A)

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America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	id.com	Email: antibody_sales_uk@bio-ra	d.com	Email: 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

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