Datasheet: MCA278 BATCH NUMBER 161147

Description:	MOUSE ANTI RAT IgG2a HEAVY CHAIN
Specificity:	IgG2a HEAVY CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MARG2a-1
lsotype:	lgG1
Quantity:	0.25 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-rad-antibodies.com/protocols</u> .						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin			•			
	ELISA	•			1.25ug/ml as coating antibody		
	Immunoprecipitation						
	Western Blotting			•			
	necessarily exclude its us a guide only. It is recomm system using appropriate	nended th	at the use	er titrates the antibody	•		
Target Species	Rat						
Product Form	Purified IgG - liquid						
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	0.1% Sodium Azide						
Approx. Protein	IgG concentration 1 mg/n	nl					

Concentrations

Immunogen	Purified rat IgG2a.
External Database Links	UniProt: P20760 Related reagents Entrez Gene: 679045 LOC679045 Related reagents
RRID	AB_322914
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the PAI-0 mouse myeloma cell line.
Specificity	Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1 recognizes the rat gamma 2a immunoglobulin heavy chain, and does not cross-react with other immunoglobulin classes or subclasses.
	Avidity of Mouse anti Rat IgG2a heavy chain antibody, clone MARG2a-1 for rat IgG2a = $2.1 \times 10^9 \text{ M}^{-1}$.
ELISA	This product may be used in an indirect ELISA or as a capture antibody in a sandwich ELISA together with MCA1296P as detection reagent.
	Purified rat IgA (<u>PRP04</u>) may be used as a standard.
References	 Bazin, H. <i>et al.</i> (1973) Brief communication: Transplantable immunoglobulin-secreting tumors in rats. V. Monoclonal immunoglobulins secreted by 250 ileocecal immunocytomas in LOU-Wsl rats. J Natl Cancer Inst. 51 (4): 1359-61. Bazin, H. <i>et al.</i> (1974) Three classes and four (sub)classes of rat immunoglobulins: IgM, IgA, IgE and IgG1, IgG2a, IgG2b, IgG2c. Eur J Immunol. 4 (1): 44-8. Sandin, L.C. <i>et al.</i> (2014) Locally delivered CD40 agonist antibody accumulates in secondary lymphoid organs and eradicates experimental disseminated bladder cancer. Cancer Immunol Res. 2 (1): 80-90.
	 4. Bézie, S. <i>et al.</i> (2015) Fibrinogen-like protein 2/fibroleukin induces long-term allograft survival in a rat model through regulatory B cells. <u>PLoS One. 10 (3): e0119686.</u> 5. Bézie S <i>et al.</i> (2015) Compensatory Regulatory Networks between CD8 T, B, and Myeloid Cells in Organ Transplantation Tolerance. <u>J Immunol. 195 (12): 5805-15.</u> 6. Ueta, H. <i>et al.</i> (2018) Single blood transfusion induces the production of donor-specific alloantibodies and regulatory T cells mainly in the spleen. <u>Int Immunol. 30 (2): 53-67.</u> 7. Huizinga, R. <i>et al.</i> (2012) Sialylation of <i>Campylobacter jejuni</i> lipo-oligosaccharides: impact on phagocytosis and cytokine production in mice. <u>PLoS One. 7 (3): e34416.</u>
Further Reading	 Köhler, G. & Milstein, C. (1975) Continuous cultures of fused cells secreting antibody of predefined specificity. <u>Nature. 256 (5517): 495-7.</u> Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <u>J.</u>

	Immunol. 121: 2077-2082. 3. Shulman, M. <i>et al.</i> (1978) A better cell line for making hybrid antibodies. <u>Nature. 276 (5685): 269-70.</u>	omas secreting specific			
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and stor -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C 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 frost-free freezers is not recommended.	antibody. Storage in			
Guarantee	12 months from date of despatch				
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA278 10040				
Regulatory	For research purposes only				

Related Products

Recommended Secondary Antibodies

Rabbit Ar	nti Mouse IgG (STAR12)	RP	E				
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>							
Goat Anti	Mouse IgG (STAR76)	76) <u>RPE</u>					
Goat Anti	Mouse IgG (STAR70)	<u>FITC</u>					
Goat Anti	Mouse IgG (H/L) (STAR117)	/L) (STAR117) <u>Alk. Phos.</u> , <u>DyLight®488, DyLight®550,</u>					
	DyLight®650, DyLight®680, DyLight®800,						
		<u>FITC, HRP</u>					
Goat Anti	Goat Anti Mouse IgG (STAR77) <u>HRP</u>						
Goat Anti	Goat Anti Mouse IgG (Fc) (STAR120) <u>FITC</u> , <u>HRP</u>						
Rabbit Ar	Rabbit Anti Mouse IgG (STAR13) <u>HRP</u>						
Rabbit Ar	Rabbit Anti Mouse IgG (STAR9) <u>FITC</u>						
Recommended Negative Controls							
MOUSE IgG1 NEGATIVE CONTROL (MCA1209)							
North & South America	Tel: +1 800 265 7376 Worldwi Fax: +1 919 878 3751	de	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50		
	Email: antibody_sales_us@bio-rad.com		Email: antibody_sales_uk@bio-	rad.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 'M383973:210513'							

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