Datasheet: MCA193 BATCH NUMBER 167259

Description:	MOUSE ANTI RAT IgE		
Specificity:	lgE		
Format:	Purified		
Product Type:	Monoclonal Antibody		
Clone:	MARE-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	•			5ug/ml as coating antibody	
	Immunoprecipitation					
	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	Rat					
Product Form	Purified IgG - liquid					
Preparation	Purified IgG prepared by immunoaffinity on Protein G from tissue culture supernatant					
Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	0.1% Sodium Azide					
Approx. Protein	IgG concentration 1.0 mg/ml					

Concentrations

Immunogen	Rat IR162, IR1016, IR2 and IR410 IgE myeloma proteins.
External Database Links	UniProt: P01855 Related reagents Entrez Gene: 299351 Ighe Related reagents
RRID	AB_321899
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	Mouse anti Rat IgE antibody, clone MARE-1 recognizes rat epsilon heavy chain of immunoglobulin IgE and does not cross-react with other classes of rat immunoglobulin. Mouse anti Rat IgE antibody, clone MARE-1 binds to rat IgE with an avidity of 4x10 ⁹ M ⁻¹
ELISA	This antibody may be used as a coating antibody in a sandwich ELISA in combination with clone MARK-1/MARL-15 (Product code MCA1296P) as detection reagent and purified rat IgE (Product code PRP07A).
References	 Negrão-Corrêa, D. <i>et al.</i> (1996) Intestinal transport and catabolism of IgE: a major blood-independent pathway of IgE dissemination during a <i>Trichinella spiralis</i> infection of rats. J Immunol. 157 (9): 4037-44. Silveira, M.R. <i>et al.</i> (2002) Infection with Strongyloides venezuelensis induces transient airway eosinophilic inflammation, an increase in immunoglobulin E, and hyperresponsiveness in rats. Infect Immun. 70: 6263-72. Bąbolewska, E. & Brzezińska-błaszczyk, E. (2015) Human-derived cathelicidin LL-37 directly activates mast cells to proinflammatory mediator synthesis and migratory response. <u>Cell Immunol. 293 (2): 67-73.</u> Korinek, M. <i>et al.</i> (2016) Anti-allergic potential of <i>Typhonium blumei</i>: inhibition of degranulation via suppression of PI3K/PLCγ2 phosphorylation and calcium influx. <u>Phytomedicine. 23 (14): 1706-15.</u> Tulinská, J. <i>et al.</i> (2018) Humoral and cellular immune response in Wistar Han RCC rats fed two genetically modified maize MON810 varieties for 90 days (EU 7th Framework Programme project GRACE). <u>Arch Toxicol. 92 (7): 2385-99.</u> 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> Agier, J. <i>et al.</i> (2018) Cathelicidin LL-37 Affects Surface and Intracellular Toll-Like Receptor Expression in Tissue Mast Cells. J Immunol Res. 2018: 7357162. Witczak, P. <i>et al.</i> (2020) The Response of Tissue Mast Cells to TLR3 Ligand Poly(I:C) Treatment. J Immunol Res. 2020: 2140694. Żelechowska, P. <i>et al.</i> (2022) Different effectiveness of fungal pathogen-associated molecular patterns (PAMPs) in activating rat peritoneal mast cells. <u>Immunol Lett. 248:</u>

	 <u>7-15.</u> 10. żelechowska, P. <i>et al.</i> (2021) Mannan activates tissue native and IgE-sensitized mast cells to proinflammatory response and chemotaxis in TLR4-dependent manner. <u>J Leukoc Biol. 109 (5): 931-42.</u> 11. żelechowska, P. <i>et al.</i> (2021) Native and IgE-primed rat peritoneal mast cells exert pro-inflammatory activity and migrate in response to yeast zymosan upon Dectin-1 engagement. <u>Immunol Res. 69 (2): 176-88.</u>
Further Reading	 Bazin, H. <i>et al.</i> (1974) Transplantable immunoglobulin-secreting tumours in rats. IV. Sixty-three IgE-secreting immunocytoma tumours. <u>Immunology. 26 (4): 713-23.</u> Bazin, H. <i>et al.</i> (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. <u>J</u> <u>Immunol. 121 (5): 2077-82.</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> Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from <i>in vitro</i> culture supernatants. <u>J Immunol Methods. 66 (2): 261-9.</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 #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA193 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12)	RPE		
Goat Anti Mouse IgG IgA IgM (STAR87) <u>HRP</u>			
Goat Anti Mouse IgG (STAR76)	RPE		
Rabbit Anti Mouse IgG (STAR13)	HRP		
Goat Anti Mouse IgG (STAR70)	<u>FITC</u>		
Goat Anti Mouse IgG (H/L) (STAR117)	<u>Alk. Phos., DyLight®488, DyLight®550,</u>		
	<u>DyLight®650</u> , <u>DyLight®680</u> , <u>DyLight®800</u> ,		
	FITC, HRP		
Rabbit Anti Mouse IgG (STAR9)	<u>FITC</u>		
	LIDD		
Goat Anti Mouse IgG (STAR77)	HRP		
Goat Anti Mouse IgG (STAR77) Goat Anti Mouse IgG (Fc) (STAR120)	HRP FITC, HRP		

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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 'M383634:210513'

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