

Datasheet: MCA193F BATCH NUMBER 161132

Description:	MOUSE ANTI RAT IgE:FITC
Specificity:	IgE
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	MARE-1
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	•			5ug/ml
Immunohistology - Frozen				
Immunohistology - Paraffin			•	

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 conjugate	ed to Fluorescein Isoth	niocyanate Isomer	1 (FITC) - liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nr	m)
	FITC	490	525	
Preparation	Purified IgG prepared	by affinity chromatog	raphy from tissue o	culture supernatant
Buffer Solution	Phosphate buffered sa	aline		
Preservative	0.1% Sodium Azide			
Stabilisers	50% Glycerol			
Approx. Protein	IgG concentration 1 m	ng/ml		

Concentrations

Immunogen	Rat IR162, IR1016, IR2 and IR410 IgE myeloma proteins.	
External Database	UniProt:	
Links	P01855 Related reagents	
	101000 Related reagents	
	Entrez Gene:	
	299351 Ighe Related reagents	
RRID	AB_321901	
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	
Flow Cytometry	Use 50ul of the suggested working dilution to label 2 x 10 ⁷ cells in 100ul.	
References	1. 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 o rats. J Immunol. 157 (9): 4037-44.	
	2. 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.	
	3. Bąbolewska, E. & Brzezińska-błaszczyk, E. (2015) Human-derived cathelicidin LL-37	
	directly activates mast cells to proinflammatory mediator synthesis and migratory	
	response. Cell Immunol. 293 (2): 67-73.	
	4. 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.	
	Phytomedicine. 23 (14): 1706-15.	
	5. 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). Arch Toxicol. 92 (7): 2385-99.	

- 6. Ueta, H. *et al.* (2018) Single blood transfusion induces the production of donor-specific alloantibodies and regulatory T cells mainly in the spleen. Int Immunol. 30 (2): 53-67.
- 7. Agier, J. *et al.* (2018) Cathelicidin LL-37 Affects Surface and Intracellular Toll-Like Receptor Expression in Tissue Mast Cells. <u>J Immunol Res. 2018: 7357162.</u>
- 8. Witczak, P. *et al.* (2020) The Response of Tissue Mast Cells to TLR3 Ligand Poly(I:C) Treatment. J Immunol Res. 2020: 2140694.
- 9. żelechowska, P. *et al.* (2022) Different effectiveness of fungal pathogen-associated molecular patterns (PAMPs) in activating rat peritoneal mast cells. <u>Immunol Lett. 248:</u> 7-15.
- 10. żelechowska, P. et al. (2021) Mannan activates tissue native and IgE-sensitized mast

cells to proinflammatory response and chemotaxis in TLR4-dependent manner. J Leukoc Biol. 109 (5): 931-42.

11. żelechowska, P. et al. (2021) Native and IgE-primed rat peritoneal mast cells exert pro-inflammatory activity and migrate in response to yeast zymosan upon Dectin-1 engagement. Immunol Res. 69 (2): 176-88.

Further Reading

- 1. Bazin, H. et al. (1974) Transplantable immunoglobulin-secreting tumours in rats. IV. Sixty-three IgE-secreting immunocytoma tumours. Immunology. 26 (4): 713-23.
- 2. Bazin, H. et al. (1978) Transplantable IgD immunoglobulin-secreting tumors in rat. J Immunol. 121 (5): 2077-82.
- 3. Bazin, H. et al. (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. J Immunol Methods. 71 (1): 9-16.
- 4. Bazin, H. et al. (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. J Immunol Methods. 66 (2): 261-9.

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. This product is photosensitive and should be protected from light.

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/MCA193F
Regulatory	10328 For research purposes only

Related Products

America

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL:FITC (MCA1209F)

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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 'M385493:210513'

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