

Datasheet: MCA419F

Description:	RAT ANTI MOUSE IgE HEAVY CHAIN:FITC
Specificity:	IgE HEAVY CHAIN
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	LO-ME-3
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

RRID AB_321897

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 Mouse

Species Cross Reactivity Does not react with:Rat

Product Form Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	FITC	490	525

Preparation Purified IgG prepared by affinity chromatography from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.1% Sodium Azide

Stabilisers 50% Glycerol

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen	Purified IgE from BALB/c mice.
External Database Links	<p>UniProt: P06336 Related reagents</p> <p>Entrez Gene: 380792 Gm900 Related reagents</p>
Fusion Partners	Spleen cells from immunised LOU/c rats were fused with cells of the rat IR983F myeloma cell line.
Specificity	Rat anti Mouse IgE Heavy Chain antibody, clone LO-ME-3 recognizes the murine epsilon immunoglobulin heavy chain, and does not cross react with other murine immunoglobulin classes or subclasses. The avidity of Rat anti Mouse IgE Heavy Chain antibody, clone LO-ME-3 is = $3 \times 10^9 \text{M}^{-1}$
Flow Cytometry	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.
References	<ol style="list-style-type: none"> 1. Mojtabavi, N. <i>et al.</i> (2002) Long-lived Th2 memory in experimental allergic asthma. J Immunol. 169 (9): 4788-96. 2. Stevens, T. <i>et al.</i> (2008) Increased transcription of immune and metabolic pathways in naive and allergic mice exposed to diesel exhaust Toxicol. Sci. 102: 359-70. 3. Savignac, M. <i>et al.</i> (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. J Immunol. 185:7527-36. 4. Bemark, M. <i>et al.</i> (2011) A unique role of the cholera toxin A1-DD adjuvant for long-term plasma and memory B cell development. J Immunol. 186: 1399-410. 5. Hashimoto, K. <i>et al.</i> (2005) Cyclooxygenase inhibition augments allergic inflammation through CD4-dependent, STAT6-independent mechanisms. J Immunol. 174 (1): 525-32. 6. Komai, M. <i>et al.</i> (2010) A novel CC-chemokine receptor 3 antagonist, Ki19003, inhibits airway eosinophilia and subepithelial/peribronchial fibrosis induced by repeated antigen challenge in mice. J Pharmacol Sci. 112: 203-13. 7. Komai, M. <i>et al.</i> (2003) Role of Th2 responses in the development of allergen-induced airway remodelling in a murine model of allergic asthma. Br J Pharmacol. 138: 912-20 8. Lee, M.Y. <i>et al.</i> (2011) Protective Effects of Mentha haplocalyx Ethanol Extract (MH) in a Mouse Model of Allergic Asthma. Phytother Res. 25(6):863-9. 9. Niwa, S. <i>et al.</i> (2010) Ovalbumin-induced plasma interleukin-4 levels are reduced in ceramide kinase-deficient DO11.10 RAG1-/- mice. Lipids Health Dis. 9:1. 10. Hazebrouck, S. <i>et al.</i> (2009) Allergic sensitization to bovine beta-lactoglobulin: comparison between germ-free and conventional BALB/c mice. Int Arch Allergy Immunol. 148: 65-72. 11. Huang, C.H. <i>et al.</i> (2011) Airway inflammation and IgE production induced by dust mite allergen-specific memory/effector Th2 cell line can be effectively attenuated by IL-35. J Immunol. 187: 462-71. 12. Kalenda, Y.D. <i>et al.</i> (2015) Tandem repeat recombinant proteins as potential antigens for the sero-diagnosis of <i>Schistosoma mansoni</i> infection. Parasitol Int. 64 (6): 503-12. 13. Kim, J.H. & Ohsawa, M. (1995) Oral tolerance to ovalbumin in mice as a model for detecting modulators of the immunologic tolerance to a specific antigen. Biol Pharm Bull. 18 (6): 854-8. 14. Ray, A. <i>et al.</i> (2015) Gut Microbial Dysbiosis Due to <i>Helicobacter</i> Drives an Increase in Marginal Zone B Cells in the Absence of IL-10 Signaling in Macrophages. J Immunol. 195 (7): 3071-85. 15. Nakano, Y. <i>et al.</i> (2016) Role of Prostaglandin D2 and DP1 Receptor on Japanese Cedar Pollen-Induced Allergic Rhinitis in Mice. J Pharmacol Exp Ther. 357 (2): 258-63. 16. Jeon, W.Y. <i>et al.</i> (2015) Soshiho-tang water extract inhibits ovalbumin-induced airway inflammation via the regulation of heme oxygenase-1. BMC Complement Altern Med. 15 (1): 329.

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Storage

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee

18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet documentation #10328 available at:
10328: <https://www.bio-rad-antibodies.com/uploads/MSDS/10328.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE SEROBLOCK FcR \(BUF041A\)](#)

[MOUSE SEROBLOCK FcR \(BUF041B\)](#)

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