Datasheet: MCA419F

BATCH NUMBER 164712

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

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 Stabilisers

0.1% Sodium Azide

	50% Glycerol
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified IgE from BALB/c mice.
External Database Links	**UniProt:** P06336 Related reagents **Entrez Gene:** 380792 Gm900 Related reagents
RRID	AB_321897
Fusion Partners	Spleen cells from immunized 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 x $10^9 M^{-1}$
Flow Cytometry	Use 50ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. 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. 2. Mojtabavi, N. *et al.* (2002) Long-lived Th2 memory in experimental allergic asthma. J Immunol. 169 (9): 4788-96. 3. Komai, M. *et al.* (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 4. Hashimoto, K. *et al.* (2005) Cyclooxygenase inhibition augments allergic inflammation through CD4-dependent, STAT6-independent mechanisms. J Immunol. 174 (1): 525-32. 5. Stevens,T. *et al.* (2008) Increased transcription of immune and metabolic pathways in naive and allergic mice exposed to diesel exhaust Toxicol.Sci. 102: 359-70. 6. Hazebrouck, S. *et al.* (2009) Allergic sensitization to bovine beta-lactoglobulin: comparison between germ-free and conventional BALB/c mice. Int Arch Allergy Immunol. 148: 65-72. 7. Savignac. M. *et al.* (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. J Immunol. 185:7527-36. 8. Komai, M. *et al.* (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. 9. Niwa, S. *et al.* (2010) Ovalbumin-induced plasma interleukin-4 levels are reduced in ceramide kinase-deficient DO11.10 RAG1-/- mice. Lipids Health Dis. 9:1. 10. Bemark, M. *et al.* (2011) A unique role of the cholera toxin A1-DD adjuvant for

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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/MCA419F 10328
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

North & South America Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com
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Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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
'M385583:210513'

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