

## Datasheet: MCA419B

**BATCH NUMBER 171318**

<b>Description:</b>	RAT ANTI MOUSE IgE HEAVY CHAIN:Biotin
<b>Specificity:</b>	IgE HEAVY CHAIN
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-ME-3
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			500ng/ml
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.

<b>Target Species</b>	Mouse
<b>Species Cross Reactivity</b>	Does not react with:Rat
<b>Product Form</b>	Purified IgG conjugated to Biotin - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide 50% Glycerol

<b>Approx. Protein Concentrations</b>	IgG concentration 1 mg/ml
<b>Immunogen</b>	Purified IgE from BALB/c mice.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P06336</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">380792</a> Gm900    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_321896
<b>Fusion Partners</b>	Spleen cells from immunized LOU/c rats were fused with cells of the rat IR983F myeloma cell line.
<b>Specificity</b>	<b>Rat anti Mouse IgE Heavy Chain antibody, clone LO-ME-3</b> 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 = $3 \times 10^9 \text{M}^{-1}$
<b>References</b>	<ol style="list-style-type: none"> <li>Kim, J.H. &amp; Ohsawa, M. (1995) Oral tolerance to ovalbumin in mice as a model for detecting modulators of the immunologic tolerance to a specific antigen. <a href="#">Biol Pharm Bull. 18 (6): 854-8.</a></li> <li>Mojtabavi, N. <i>et al.</i> (2002) Long-lived Th2 memory in experimental allergic asthma. <a href="#">J Immunol. 169 (9): 4788-96.</a></li> <li>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. <a href="#">Br J Pharmacol. 138: 912-20</a></li> <li>Hashimoto, K. <i>et al.</i> (2005) Cyclooxygenase inhibition augments allergic inflammation through CD4-dependent, STAT6-independent mechanisms. <a href="#">J Immunol. 174 (1): 525-32.</a></li> <li>Stevens, T. <i>et al.</i> (2008) Increased transcription of immune and metabolic pathways in naive and allergic mice exposed to diesel exhaust <a href="#">Toxicol.Sci. 102: 359-70.</a></li> <li>Hazebrouck, S. <i>et al.</i> (2009) Allergic sensitization to bovine beta-lactoglobulin: comparison between germ-free and conventional BALB/c mice. <a href="#">Int Arch Allergy Immunol. 148: 65-72.</a></li> <li>Savignac, M. <i>et al.</i> (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. <a href="#">J Immunol. 185:7527-36.</a></li> <li>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. <a href="#">J Pharmacol Sci. 112: 203-13.</a></li> <li>Niwa, S. <i>et al.</i> (2010) Ovalbumin-induced plasma interleukin-4 levels are reduced in ceramide kinase-deficient DO11.10 RAG1-/- mice. <a href="#">Lipids Health Dis. 9:1.</a></li> <li>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. <a href="#">J Immunol. 186: 1399-410.</a></li> <li>Lee, M.Y. <i>et al.</i> (2011) Protective Effects of Mentha haplocalyx Ethanol Extract (MH) in a Mouse Model of Allergic Asthma. <a href="#">Phytother Res. 25(6):863-9.</a></li> <li>Huang, C.H. <i>et al.</i> (2011) Airway inflammation and IgE production induced by dust</li> </ol>

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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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10328 available at: <https://www.bio-rad-antibodies.com/SDS/MCA419B>

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**Regulatory** For research purposes only

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**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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