

## Datasheet: MCA419P

**BATCH NUMBER 180220**

<b>Description:</b>	RAT ANTI MOUSE IgE HEAVY CHAIN:HRP
<b>Specificity:</b>	IgE HEAVY CHAIN
<b>Format:</b>	HRP
<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
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 Horseradish Peroxidase (HRP) - 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>	0.01% Thiomersal 50% Glycerol

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 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_321898
<b>Fusion Partners</b>	Spleen cells from immunised 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>1. 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>2. 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>3. 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>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. <a href="#">J Immunol. 186: 1399-410.</a></li> <li>5. 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>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. <a href="#">J Pharmacol Sci. 112: 203-13.</a></li> <li>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. <a href="#">Br J Pharmacol. 138: 912-20</a></li> <li>8. 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>9. Niwa, S. <i>et al.</i> (2010) Ovalbumin-induced plasma interleukin-4 levels are reduced in ceramide kinase-deficient DO11.10 RAG1<sup>-/-</sup> mice. <a href="#">Lipids Health Dis. 9:1.</a></li> <li>10. 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>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. <a href="#">J Immunol. 187: 462-71.</a></li> <li>12. Kalenda, Y.D. <i>et al.</i> (2015) Tandem repeat recombinant proteins as potential antigens</li> </ol>

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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. Avoid repeated freezing and thawing

as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10097 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA419P">https://www.bio-rad-antibodies.com/SDS/MCA419P</a> 10097
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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