

## Datasheet: 0100-0413

<b>Description:</b>	MOUSE ANTI HUMAN IgE
<b>Specificity:</b>	IgE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	E411 (5H2)
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	1 mg

## Product Details

**RRID** AB\_617303

**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	▪			
ELISA	▪			

Where this product 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 product for use in their own system using the appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein G

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** 1.0 mg/ml

**Immunogen** Immunoglobulin E from human serum

**External Database Links**

**UniProt:**  
[P01854](#) [Related reagents](#)

**Entrez Gene:**

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<b>Specificity</b>	<p><b>Mouse anti Human IgE antibody, clone E411 (5H2)</b> recognizes human IgE heavy chain, a 428 amino acid protein bearing four Ig-like domains. Mouse anti Human IgE antibody, clone E411 binds to an epitope expressed on Cε3 domain.</p> <p>Mouse anti Human IgE antibody, clone E411 has been successfully used as a capture reagent in the development of a sensitive Sandwich ELISA in combination with biotinylated Goat anti Human IgE (<a href="#">STAR147B</a>) as a detection reagent. It has also been used in the development of a bead based microfluidic assay for the measurement of patient IgE levels in combination with Mouse anti Human IgE antibody, clone E454 (<a href="#">0100-0414</a>) indicating potential for the study and monitoring of IgE levels in allergic events (<a href="#">Proczek et al. 2012</a>).</p>
<b>References</b>	<ol style="list-style-type: none"><li>1. Wan, L. <i>et al.</i> (2010) Genetic variations in the CεpsilonX domain of human membrane-bound IgE. <a href="#">Immunogenetics. 62: 273-80.</a></li><li>2. Proczek, G. <i>et al.</i> (2012) Total serum IgE quantification by microfluidic ELISA using magnetic beads. <a href="#">Anal Bioanal Chem. 402: 2645-53.</a></li><li>3. Brown, A.D. <i>et al.</i> (2012) IgE CH3 peptide vaccine <a href="#">US Patent Publication US 8298547 B2</a></li></ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	18 months from date of despatch.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: 10040: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</a>
<b>Regulatory</b>	For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">Alk. Phos.</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Human Anti Mouse IgG2a (HCA037...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>

### Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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**Printed on 20 May 2019**

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