

Datasheet: 0100-0413

**BATCH NUMBER 121114**

<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

### 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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from ascites
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	1.0 mg/ml
<b>Immunogen</b>	Immunoglobulin E from human serum

**External Database  
Links**

**UniProt:**

[P01854](#)    [Related reagents](#)

**Entrez Gene:**

[3497](#)    IGHE    [Related reagents](#)

**RRID**

AB\_617303

**Specificity**

**Mouse anti Human IgE antibody, clone E411 (5H2)** 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.

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 ([STAR147B](#)) 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 ([0100-0414](#)) indicating potential for the study and monitoring of IgE levels in allergic events ([Proczek \*et al.\* 2012](#)).

**References**

1. Wan, L. *et al.* (2010) Genetic variations in the CεpsilonmX domain of human membrane-bound IgE. [Immunogenetics. 62: 273-80.](#)
2. Proczek, G. *et al.* (2012) Total serum IgE quantification by microfluidic ELISA using magnetic beads. [Anal Bioanal Chem. 402: 2645-53.](#)
3. Brown, A.D. *et al.* (2012) IgE CH3 peptide vaccine [US Patent Publication US 8298547 B2](#)

**Storage**

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
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.

**Guarantee**

12 months from date of despatch

**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/SDS/0100-0413>  
10040

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)    [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...)    [RPE](#)  
Goat Anti Mouse IgG (STAR70...)    [FITC](#)

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

### Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M362734:200528'

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