

Datasheet: MCA2368PE

Description:	MOUSE ANTI HUMAN FC EPSILON R1 ALPHA:RPE
Specificity:	Fc EPSILON R1 ALPHA
Format:	RPE
Product Type:	Monoclonal Antibody
Clone:	9E1
Isotype:	lgG2b
Quantity:	100 TESTS

#### **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 <a href="www.bio-rad-antibodies.com/protocols">www.bio-rad-antibodies.com/protocols</a>.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry				Neat

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 appropriate negative/positive controls.

Target Species	Human		
Product Form	Purified IgG conjuga	ted to R. Phycoerythrin	(RPE) - lyophilized
Reconstitution	Reconstitute with 1.0	) ml distilled water	
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	RPE 488nm laser	496	578
Preparation	Purified IgG prepare supernatant	d by affinity chromatogr	aphy on Protein A
Buffer Solution	Phosphate buffered	saline	
Preservative	0.09% sodium azide	(NaN <sub>3</sub> )	
Preservative Stabilisers	0.09% sodium azide 1% bovine serum all		

External Database Links	UniProt:				
	P12319 Related reagents				
	Entrez Gene:				
	2205 FCER1A Related reagents				
Synonyms	FCE1A				
RRID	AB_616857				
Fusion Partners	Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line.				
Specificity	Mouse anti Human Fc epsilon R1 alpha antibody, clone 9E1 recognizes the human high affinity Fc receptor for IgE (Fc epsilon R1), which plays a central role in the IgE-mediated allergic response. Fc epsilon R1 consists of four subunits, a high affinity IgE binding alpha subunit, a beta chain and two di-sulphide linked gamma subunits. Clone 9E1 specifically recognizes the extracellular D1 domain of the Fc epsilon R1 alpha chain.  Fc epsilon R1 is primarily expressed on mast cells and basophils but expression of Fc epsilon R1 has also been reported on monocytes, Langerhans cells and dendritic cells from patients with atopic diseases.				
Flow Cytometry	Use 10µl of the suggested working dilution to label 10 <sup>6</sup> cells in 100µl.				
References	<ol> <li>Vangelista, L. <i>et al.</i> (2002) A minimal receptor-Ig chimera of human FcepsilonRI alpha-chain efficiently binds secretory and membrane IgE. Protein Eng. 15 (1): 51-7.</li> <li>Vangelista, L. <i>et al.</i> (2002) Efficient folding of the FcepsilonRI alpha-chain membrane-proximal domain D2 depends on the presence of the N-terminal domain D1. J Mol Biol. 322 (4): 815-25.</li> <li>Vangelista, L. <i>et al.</i> (2005) Membrane IgE binds and activates Fc epsilon RI in an</li> </ol>				
	antigen-independent manner. <u>J Immunol. 174 (9): 5602-11.</u> 4. Gschwandtner, M. <i>et al.</i> (2018) The Reticulum-Associated Protein RTN1A Specifically Identifies Human Dendritic Cells. <u>J Invest Dermatol. 138 (6): 1318-27.</u>				
Storage	Prior to reconstitution store at +4°C.  After reconstitution store at +4°C.  DO NOT FREEZE.				
	This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.				
Guarantee	12 months from date of despatch				
Health And Safety	Material Safety Datasheet documentation #20487 available at:				

https://www.bio-rad-antibodies.com/SDS/MCA2368PE

Information

Regulatory

20487

For research purposes only

# **Related Products**

# **Recommended Negative Controls**

MOUSE IgG2b NEGATIVE CONTROL:RPE (MCA691PE)

## **Recommended Useful Reagents**

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

 North & South
 Tel: +1 800 265 7376
 Worldwide
 Tel: +44 (0)1865 852 700
 Europe
 Tel: +49 (0) 89 8090 95 21

 America
 Fax: +1 919 878 3751
 Fax: +44 (0)1865 852 739
 Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M419291:230616'

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