



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Mouse Anti-HUMAN FC EPSILON R1 ALPHA:RPE

**Catalog No.**  
DS-MB-03288

**Target Species:**  
Human

**Isotype:**  
IgG2b

### Synonyms

FCE1A

### Preparation

**Purification:** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant.

**Fusion Partners:** Spleen cells from immunized Balb/c mice were fused with cells of the Sp2/0-Ag14 myeloma cell line.

### Formulation

**Product Type:** Monoclonal Antibody

**Product Form:** Purified IgG conjugated to R. Phycoerythrin (RPE) – lyophilized

**Reconstitution:** Reconstitute in 0.25 ml distilled water

**Buffer Solution:** Phosphate buffered saline pH 7.4

**Preservative Stabilizers:** 0.09% Sodium Azide, 1% Bovine Serum Albumin

**Approx. Protein Concentrations:** IgG concentration 0.1 mg/ml

### Specificity

DS-MB-03288 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. DS-MB-03288 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.

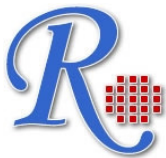
### Storage

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### **Shelf Life**

12 months from date of reconstitution.

### **Applications**

<b>Options Functions</b>	<b>YES</b>	<b>NO</b>	<b>Not determined</b>	<b>Recommended Work dilution or concentration</b>
Flow Cytometry (1)	•			Neat
Western Blotting			•	
ELISA			•	

**Note:** other applications are not tested yet. Optimal dilutions should be determined by the users.  
(1) Use 10ul of the suggested working dilution to label  $10^6$  cells in 100ul.

### **Reference**

1. Vangelista, L. et al. (2002) A minimal receptor-Ig chimera of human Fc epsilon R1 alpha-chain efficiently binds secretory and membrane IgE. Protein Engineering. 15: 51-57.
2. Vangelista, L. et al. (2002) Efficient folding of the Fc epsilonR1 alpha-chain membrane-proximal domain D2 depends on the presence of the N-terminal domain D1. J. Mol. Biol. 322: 815-25

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