Anti-Fc epsilon RI/FCER1A antibody [9E1] ab54411

Product name: Anti-Fc epsilon RI/FCER1A antibody [9E1]
Description: Mouse monoclonal [9E1] to Fc epsilon RI/FCER1A
Host species: Mouse
Specificity: This antibody 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.

Tested applications: Suitable for: WB, IP, ELISA, Flow Cyt, ICC/IF, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide corresponding to Human Fc epsilon RI/FCER1A.

General notes: This product was previously labelled as Fc epsilon RI

Overview

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C.
Storage buffer: Preservative: 0.09% Sodium Azide
Constituents: PBS, pH 7.4
Purity: Protein G purified
Purification notes: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Clonality: Monoclonal
Clone number: 9E1
Myeloma: Sp2/0-Ag14
Isotype: IgG2b

Applications

Our Abpromise guarantee covers the use of ab54411 in the following tested applications.
Function

Binds to the Fc region of immunoglobulins epsilon. High affinity receptor. Responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also induces the secretion of important lymphokines.

Sequence similarities

Contains 2 Ig-like (immunoglobulin-like) domains.

Cellular localization

Cell membrane.

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<tr>
<td>WB</td>
<td></td>
<td>Use at an assay dependent concentration. Predicted molecular weight: 30 kDa.</td>
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<td>IP</td>
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<td>Use at an assay dependent concentration.</td>
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<td>ELISA</td>
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<td>Use at an assay dependent concentration.</td>
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<tr>
<td>Flow Cyt</td>
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<td>1/50 - 1/100. Use 10µl of the suggested dilution to label 106 cells in 100 µl.</td>
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**Target**

**Function**

Binds to the Fc region of immunoglobulins epsilon. High affinity receptor. Responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators (such as histamine) responsible for the manifestations of allergy. The same receptor also induces the secretion of important lymphokines.

**Sequence similarities**

Contains 2 Ig-like (immunoglobulin-like) domains.

**Cellular localization**

Cell membrane.

Images

*ab170192* - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

**Abreviews Notes**

**WB**

Use at an assay dependent concentration. Predicted molecular weight: 30 kDa.

**IP**

Use at an assay dependent concentration.

**ELISA**

Use at an assay dependent concentration.

**Flow Cyt**

Use at an assay dependent concentration.

**ICC/IF**

Use at an assay dependent concentration.

**IHC-P**

1/75.

**Target**

**Function**

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**Sequence similarities**

Contains 2 Ig-like (immunoglobulin-like) domains.

**Cellular localization**

Cell membrane.

images

*ab54411* staining the Fc epsilon RI/FCER1A in the Human basophil granulocytes cells by Flow Cytometry. Cells were separated by Percoll density separation, followed by magnetic isolation for basophils, sample buffer was PBS with human IgG (Fc-block). The sample was incubated with the primary antibody at 10 ul/cells for 45 minutes at 4°C. A FITC-conjugated Goat anti-mouse (1/100) was used as the secondary antibody.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Fc epsilon RI/FCER1A antibody [9E1] (ab54411)

Image courtesy of an anonymous Abreview.

ab54411 staining Fc epsilon RI/FCER1A in human skin tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with paraformaldehyde and a heat mediated antigen retrieval step was performed using citrate buffer pH 6.0. Samples were then blocked with 4% serum and then incubated with ab54411 at a 1/75 dilution for 14 hours at 4°C. The secondary used was a 1.4nm gold (ultra-small) + Alexa Fluor 488 conjugated horse anti-mouse polyclonal, used at 10µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-Fc epsilon RI/FCER1A antibody [9E1] (ab54411)

This image is courtesy of an anonymous Abreview.

ab54411 staining Fc epsilon RI/FCER1A in Human basophil granulocytes by ICC/IF(Immunocytochemistry/immunofluorescence). Cells were fixed with PFA and blocked with 4% serum for 30 minutes at 21°C. Samples were incubated with primary antibody (1/75 in PBS + 4% serum) for 16 hours at 4°C. An Texas Red® conjugated Goat anti-mouse IgG polyclonal(1/100 was used as the secondary antibody.

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