

# FCER1G Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19903b

## Product Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P, E                                                                                                                                             |
| <b>Primary Accession</b> | <a href="#">P30273</a>                                                                                                                                   |
| <b>Other Accession</b>   | <a href="#">P20411</a> , <a href="#">Q9XSZ6</a> , <a href="#">P20491</a> , <a href="#">Q8SPW1</a> , <a href="#">Q9BDR7</a> , <a href="#">NP_004097.1</a> |
| <b>Reactivity</b>        | Human, Rat, Mouse                                                                                                                                        |
| <b>Predicted</b>         | Bovine, Monkey, Pig, Rat, Canine, Rabbit                                                                                                                 |
| <b>Host</b>              | Rabbit                                                                                                                                                   |
| <b>Clonality</b>         | Polyclonal                                                                                                                                               |
| <b>Isotype</b>           | Rabbit IgG                                                                                                                                               |
| <b>Clone Names</b>       | RB41735                                                                                                                                                  |
| <b>Calculated MW</b>     | 9667                                                                                                                                                     |
| <b>Antigen Region</b>    | 60-86                                                                                                                                                    |

## Additional Information

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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>            | 2207                                                                                                                                                                         |
| <b>Other Names</b>        | High affinity immunoglobulin epsilon receptor subunit gamma, Fc receptor gamma-chain, FcRgamma, Fc-epsilon RI-gamma, IgE Fc receptor subunit gamma, FcεRI gamma, FCER1G      |
| <b>Target/Specificity</b> | This FCER1G antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 60-86 amino acids from the C-terminal region of human FCER1G.       |
| <b>Dilution</b>           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.                                                                                                      |
| <b>Format</b>             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                      |
| <b>Precautions</b>        | FCER1G Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.                                                                   |

## Protein Information

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|-----------------|------------------------------------------------------------------------|
| <b>Name</b>     | FCER1G                                                                 |
| <b>Function</b> | Adapter protein containing an immunoreceptor tyrosine-based activation |

motif (ITAM) that transduces activation signals from various immunoreceptors. As a component of the high-affinity immunoglobulin E (IgE) receptor, mediates allergic inflammatory signaling in mast cells. As a constitutive component of interleukin-3 receptor complex, selectively mediates interleukin 4/IL4 production by basophils, priming T-cells toward effector T-helper 2 subset. Associates with pattern recognition receptors CLEC4D and CLEC4E to form a functional signaling complex in myeloid cells. Binding of mycobacterial trehalose 6,6'- dimycolate (TDM) to this receptor complex leads to phosphorylation of ITAM, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen- specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes. May function cooperatively with other activating receptors. Functionally linked to integrin beta-2/ITGB2-mediated neutrophil activation. Also involved in integrin alpha-2/ITGA2-mediated platelet activation.

#### Cellular Location

Cell membrane; Single-pass type I membrane protein

## Background

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The high affinity IgE receptor is a key molecule involved in allergic reactions. It is a tetramer composed of 1 alpha, 1 beta, and 2 gamma chains. The gamma chains are also subunits of other Fc receptors.

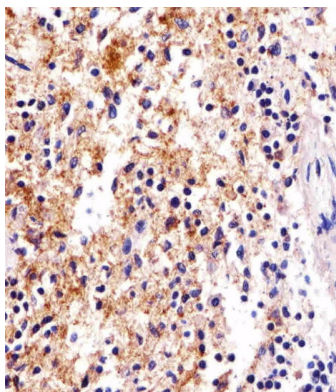
## References

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- Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Han, S., et al. Hum. Immunol. 71(7):727-730(2010)  
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Davila, S., et al. Genes Immun. 11(3):232-238(2010)  
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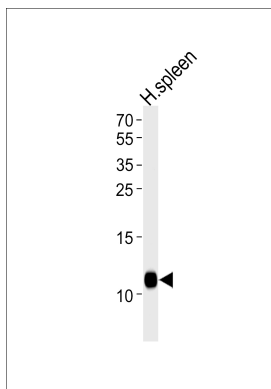
## Images

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Immunohistochemical analysis of paraffin-embedded H. spleen section using FCER1G Antibody (C-term)(Cat#AP19903b). AP19903b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Western blot analysis of lysate from human spleen tissue lysate, using FCER1G Antibody (C-term)(Cat. #AP19903b). AP19903b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.