FCER1G Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19903b

Specification

FCER1G Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P30273
Other Accession	P20411, Q9XSZ6, P20491, Q8SPW1, Q9BDR7, NP_004097.1
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**60-86**

FCER1G Antibody (C-term) - Additional Information

Gene ID 2207

Other Names
High affinity immunoglobulin epsilon receptor subunit gamma, Fc receptor gamma-chain, FcRgamma, Fc-epsilon RI-gamma, IgE Fc receptor subunit gamma, FceRI gamma, FCER1G

Target/Specificity
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.

Dilution
WB~~1:1000
IHC-P~~1:25

Format
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.

Storage
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.

Precautions
FCER1G Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FCER1G Antibody (C-term) - Protein Information

Name FCER1G

Function 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.
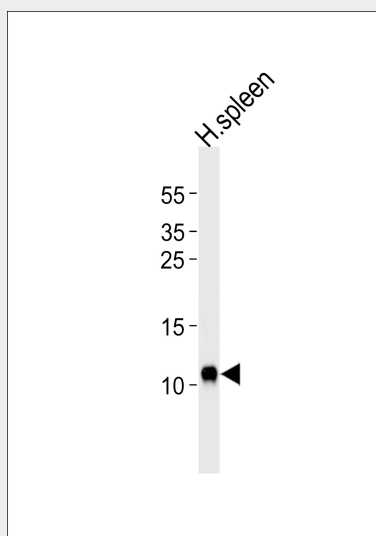
Cellular Location
Cell membrane; Single-pass type I membrane protein
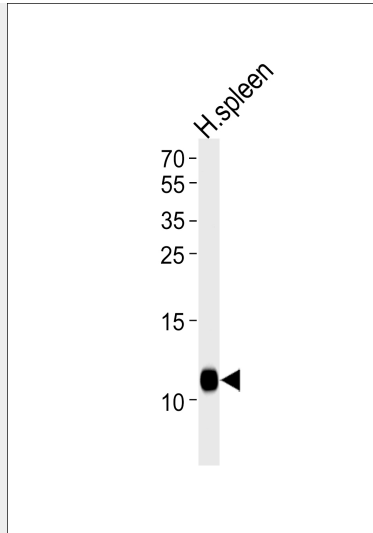
FCER1G Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FCER1G Antibody (C-term) - Images

   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.

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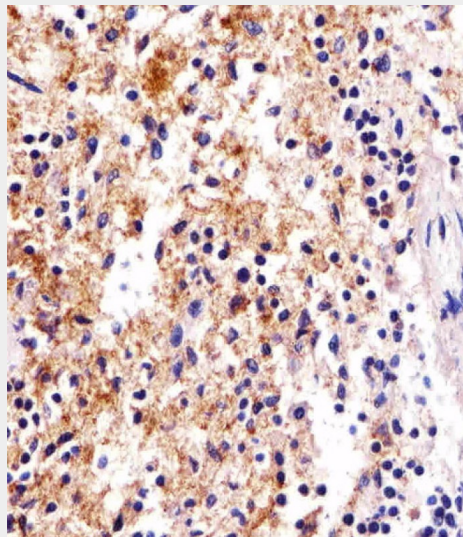
Immunohistochemical analysis of paraffin-embedded H. spleen section using FCER1G Antibody (C-term)(Cat#AP19903b). AP19903b was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

FCER1G Antibody (C-term) - Background

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.

FCER1G Antibody (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Han, S., et al. Hum. Immunol. 71(7):727-730(2010)
Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Untersmayr, E., et al. PLoS ONE 5 (2), E9023 (2010) :