

Rabbit FCER1G Polyclonal Antibody | anti-FCER1G antibody

FCER1G Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284806	Rabbit	Human Predicted Reactivity: Bovine, Monkey, Mouse, Pig, Rat	Western Blot, Immunohistochemistry, ELISA

PRODUCT SYNONYMS

FCER1G; Polyclonal Antibody; FCER1G Antibody (C-term); High affinity immunoglobulin epsilon receptor subunit gamma; Fc receptor gamma-chain; FcRgamma; Fc-epsilon RI-gamma; IgE Fc receptor subunit gamma; FceRI gamma; anti-FCER1G antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Bovine, Monkey, Mouse, Pig, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Applicable Applications for anti-FCER1G antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Function	Associates with a variety of FcR alpha chains to form a functional signaling complex. Regulates several aspects of the immune response. The gamma subunit has a critical role in allowing the IgE Fc receptor to reach the cell surface. Also involved in collagen-mediated platelet activation and in neutrophil activation mediated by integrin.
Cellular Location	Cell membrane; Single-pass type I membrane protein
Antigen Region	60-86
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.
Preparation and Storage	Maintain refrigerated at 2-8°C. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of lysate from human spleen tissue lysate, using FCER1G Antibody (C-term). AAA284806 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.



WB (Western Blot)

Western blot analysis of lysate from human spleen tissue lysate, using FCER1G Antibody (C-term). AAA284806 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.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded H. spleen section using FCER1G Antibody (C-term). AAA284806 was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-FCER1G antibody	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
Product Categories/Family for anti-FCER1G antibody	Immunology
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) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758344
NCBI GeneID	2207
NCBI Accession #	NP_004097.1
NCBI GenBank Nucleotide #	NM_004106.1
UniProt Accession #	P30273; Q5VTW4
NCBI Official Full Name	high affinity immunoglobulin epsilon receptor subunit gamma
NCBI Official Synonym Full Names	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide
NCBI Official Symbol	FCER1G
NCBI Official Synonym Symbols	FCRG
NCBI Protein Information	high affinity immunoglobulin epsilon receptor subunit gamma
UniProt Protein Name	High affinity immunoglobulin epsilon receptor subunit gamma
UniProt Gene Name	FCER1G
UniProt Synonym Gene Names	FcRgamma; FceRI gamma
UniProt Entry Name	FCERG_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/fcer1g-antibody-western-blot-immunohistochemistry-elisa/284806>