

Rabbit FCER1G Polyclonal Antibody | anti-FCER1G antibody

FCER1G Antibody

CATALOG # AAA328906	HOST Rabbit	REACTIVITY Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%)	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

FCER1G; Polyclonal Antibody; FCER1G Antibody; Fc fragment of IgE; high affinity I; receptor for; gamma polypeptide; Fc receptor gamma chain; Fc-epsilon RI-gamma; FCERG_HUMAN; FcεRI gamma; FCRG; FcRgamma; High affinity immunoglobulin epsilon receptor subunit gamma; IgE Fc receptor subunit gamma; Immunoglobulin E receptor; high affinity; gamma chain; anti-FCER1G antibody

PRODUCT SPECIFICATIONS

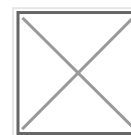
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	FCER1G Antibody detects endogenous levels of total FCER1G.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	86
Applicable Applications for anti-FCER1G antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FCER1G, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA328906 staining HepG2 cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25Å°C. Samples were then incubated with primary Ab(AAA328906 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37Å°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from RAW264.7 cells, using FCER1G. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-FCER1G antibody	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. Subcellular Location: Cell membrane>Single-pass type I membrane protein. Subunit Structure: IgE Fc receptor is a tetramer of an alpha chain, a beta chain, and two disulfide-linked gamma chains. Associates with FCGR1A; forms a functional signaling complex (PubMed:8611682). Associated with CLEC6A (By similarity). Interacts with CLEC4E (PubMed:18776906). Interacts (via ITAM domain) with SYK (via SH2 domains); activates SYK, enabling integrin-mediated activation of neutrophils and macrophages (By similarity). Interacts with CSF2RB and recruits SYK in response to IL3 stimulation; this interaction is direct (By similarity). Interacts with CD300LH; the interaction may be indirect (By similarity). Interacts with CD300LD (By similarity). Interacts with TARM1 (PubMed:26311901). Similarity: Belongs to the CD3Z/FCER1G family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4758344
NCBI GeneID	2207
NCBI Accession #	NP_004097.1
NCBI GenBank Nucleotide #	NP_004097.1
UniProt Accession #	P30273
Molecular Weight	Observed Molecular Weight: (Observed)9kD. Predicted Molecular Weight: (Calculated)10kDa.
NCBI Official Full Name	high affinity immunoglobulin epsilon receptor subunit gamma
NCBI Official Synonym Full Names	Fc fragment of IgE receptor Ig
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.