bs-13167R **[Primary Antibody]**

FCER1G Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2207 **SWISS:** P30273

Target: FCER1G

Immunogen: KLH conjugated synthetic peptide derived from human FCER1G: 10-86/86. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: IgE Fc Receptor I binds to the Fc region of immunoglobulins epsilon chain with high affinity, and is responsible for initiating the allergic response. Binding of allergen to receptor-bound IgE leads to cell activation and the release of mediators such as histamines, responsible for the manifestations of allergy. IgE Fc Receptor I also induces the secretion of important lymphokines, effectors of the hypersensitivity response. It is a tetramer of a heavily glycosylated alpha chain, a beta chain, and two disulfide linked gamma chains. The gamma chains from Fc epsilon RI are also subunits of other Fc receptors. The gamma subunit is thought to be functionally significant in allowing the IgE Fc receptor to reach the cell surface. The cytoplasmic domains of the beta and gamma subunits each contain a conserved consesus sequence, ITAM, (immunoreceptor tyrosine activation motif). Phosphorylation of a pair of conserved tyrosine residues within this motif is required for signal transduction in mast cells and other hemopoietic cell types.

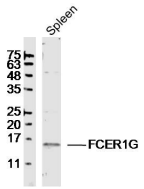
Applications: **WB** (1:500-2000)

Reactivity: Mouse (predicted: Human, Rat, Pig, Cow, Dog, Horse)

Predicted MW.: 10 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample:Spleen (mouse)cell Lysate at 40 ug Primary: Anti-FCER1G (bs-13167R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-RabbitIgG at 1/20000 dilution Predicted band size: 10 kD Observed band size: 15 kD

SELECTED CITATIONS

- **[IF=4.5]** Xiang Xu. et al. Unveiling Atherosclerotic Plaque Heterogeneity and SPP1+/VCAN+ Macrophage Subtype Prognostic Significance Through Integrative Single-Cell and Bulk-Seq Analysis. J INFLAMM RES. 2024 Apr 22 IF,WB ;Mouse. 38681071
- **[IF=3.9]** Jing Lu. et al. Exploring the Role of Neutrophil-Related Genes in Osteosarcoma via an Integrative Analysis of Single-Cell and Bulk Transcriptome. BIOMEDICINES. 2024 Jul;12(7):1513 IHC ;Mouse. 39062086
- **[IF=4.2]** Xiang Xu. et al.Unveiling Atherosclerotic Plaque Heterogeneity and SPP1^{+}/VCAN^{+} Macrophage Subtype

Prognostic Significance Through Integrative Single-Cell and Bulk-Seq Analysis.j inflamm res.2024 Apr 23:17:2399-2426. IF ;Mouse. 38681071