

Recombinant Human Fc-gamma RIIa/CD32a(H167R) Protein

Catalog No.: RP01383 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	2212	P12318

Tags

C-hFc&His

Synonyms

FCGR2A;CD32;CD32A;CDw32;FCG2;FCGR2;FCGR2A1;FcGR;IGFR2

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Receptors for the Fc region of IgG (Fc γ R) are members of the Ig superfamily that function in the activation or inhibition of immune responses. Three classes of human Fc γ Rs: RI (CD64), RII (CD32), and RIII (CD16), which generate multiple isoforms, are recognized. There are three genes for human Fcγ RII /CD32 (A, B, and C) and one for mouse Fcγ RII B (CD32B). CD32 is a low affinity receptor for IgG. The activating isoform, CD32A, is expressed on monocytes, neutrophils, platelets and dendritic cells. CD32A is expressed on many immune cell types (macrophage, neutrophil, eosinophils, platelets, dendritic cells and Langerhan cells), where inhibitory ITIM-bearing receptors may also be coexpressed and co-engaged by specific ligands. CD32A delivers an activating signal upon ligand binding, and results in the initiation of inflammatory responses including cytolysis, phagocytosis, degranulation and cytokine production. The responses can be modulated by signals from the coexpressed inhibitory receptors such as CD32B, and the strength of the signal is dependent on the ratio of expression of the activating and inhibitory receptors.

Basic Information

Description

Recombinant Human Fc-gamma RIIa/CD32a(H167R) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala36-Ile218(R167)) of human FCGR2A/CD32a(R167) (Accession #NP_001129691.1) fused with a Fc, 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human FCGR2A/CD32a(R167) at 1 μg/mL (100 μL/well) can bind FCGR2A Rabbit pAb with a linear range of 0.977-175.35 ng/mL.

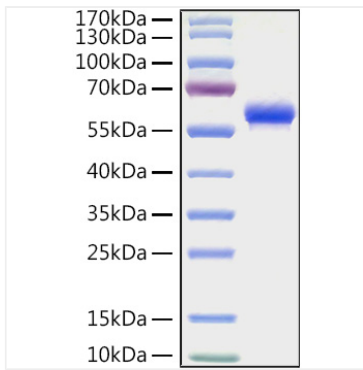
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

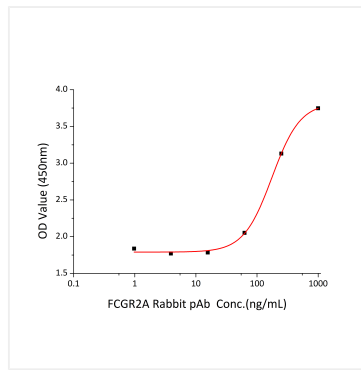
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Fc-gamma RIIa/CD32a(H167R) Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60kDa.



Immobilized Human FCGR2A/CD32a(R167) at 1 μ g/mL (100 μ L/well) can bind FCGR2A Rabbit pAb with a linear range of 0.977-175.35ng/mL.