

Recombinant Human Fc gamma RIIA/FCGR2A /CD32a (H167R) Protein

Catalog No.: RP01383

Sequence Information

Species	Gene ID
Human	2212
Swiss Prot	Tags
P12318	C-hFc&His

Synonyms

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

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

47.15 kDa 60–65 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

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.

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/FCGR2A/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.

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.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

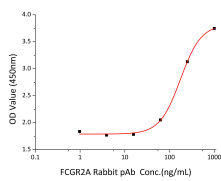
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

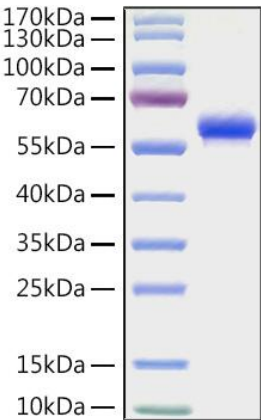
Contact

		400-999-6126
		cn.market@abclonal.com.cn
		www.abclonal.com.cn

Validation Data



Immobilized Human FCGR2A/CD32a(R167) at 1μg/mL (100 μL/well) can bind FCGR2A Rabbit pAb with a linear range of 0.977–175.35ng/mL.



Recombinant Human Fc gamma RIIA/FCGR2A/CD32a (H167R) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.