

Recombinant Human Fc-gamma RIII beta/FCGR3B /CD16b Protein

Catalog No.: RP00291

Sequence Information

Species **Gene ID**
Human 2215

Swiss Prot **Tags**
O75015 C-His

Synonyms

FCGR3B,CD16,CD16b,FCG3,FCGR3,
FCR-10,FCRIII,FCRIIb

Product Information

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

Calculated MW **Observed MW**
22.21 kDa 40-55 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. Contact us for customized product form or formulation.

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

CD16 is a low affinity Fc receptor, and has been identified as Fc receptors FcγRIIIa (CD16a) and FcγRIIIb (CD16b). These receptors function in the activation or inhibition of immune responses. CD16 encoded by two different highly homologous genes in a cell type-specific manner. CD16 is found on the surface of natural killer cells, neutrophil polymorphonuclear leukocytes, monocytes and macrophages. CD16B is also known as FCGR3B and FCG3B, is expressed specifically by polymorphonuclear leukocytes (neutrophils) and stimulated eosinophils. CD16B is the low affinity receptor for the Fc region of immunoglobulins gamma. CD16B may serve as a trap for immune complexes in the peripheral circulation which does not activate neutrophils.

Basic Information

Description

Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Thr20-Gln208) of human Fc gamma RIIIB/CD16b (Accession #NP_000561.3) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized APC anti-human CD16 Antibody at 1 μg/mL (25 μL/well) can bind Human FCGR3B with a linear range of 0.46-1.16 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.

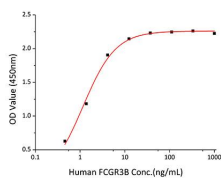
Contact

☎ | 400-999-6126

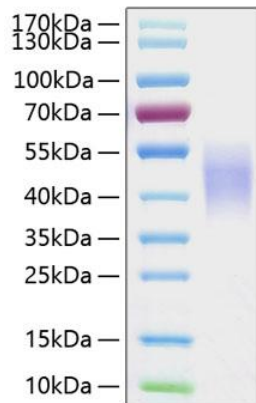
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Validation Data



Immobilized APC anti-human CD16 Antibody at 1 μ g/mL (25 μ L/well) can bind Human FCGR3B with a linear range of 0.46-1.16ng/mL.



Recombinant Human Fc-gamma RIII beta/FCGR3B/CD16b Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.