

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

Catalog No.: RP00291 Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 2215 075015

**Tags** C-His

Synonyms

FCGR3B;CD16;CD16b;FCG3;FCGR3;FCR-10;FCRIII;FCRIIIb

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

22.21 kDa 40-55 kDa

## **Endotoxin**

 $< 0.1 \; \text{EU/}\mu\text{g}$  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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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# **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 kown 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.

#### **Bio-Activity**

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

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## Storage

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

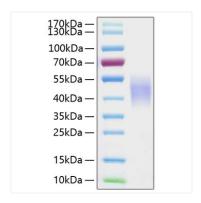
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

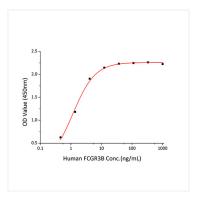
## **Operational Notes**

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

# **Validation Data**



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



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