



# Recombinant Protein Technical Manual

**Recombinant Human CD16b/FCGR3B Protein,  
Biotinylated (Active)**  
RPES0557

## Product Data:

**Product SKU:** RPES0557

**Size:** 50µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** O75015

## Protein Information:

**Molecular Mass:** 20 kDa

**AP Molecular Mass:**

**Tag:**

**Bio-activity:** Measured by its ability to bind human IgG1 in a functional ELISA.2. Labeling ratio of biotin to protein: 5.51.

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** Please contact us for more information.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Functional ELISA

**Synonyms:** Low affinity immunoglobulin gamma Fc region receptor III-B; Fc-gamma RIII-beta; FcR0; IgG Fc receptor III; FCG3; FCGR3; CD16b and FCGR6B;FCRIII;FCRIIIb

## Immunogen Information:

**Sequence:** Met 18-Gly 193

## Background:

Low affinity immunoglobulin gamma Fc region receptor III-B, also known as Fc-gamma RIII-beta, FcR0, IgG Fc receptor III, FCG3, FCGR3, CD16b and FCGR3B. FCGR3B is a GPI-anchor membrane protein and contains two Ig-like C2 type domains. FCGR3B can be expressed in orphonuclear leukocytes and stimulated eosinophils. FCGR3B can interact with INPP5D/SHIP1. FCGR3B localizes in the FCGR gene cluster is a CN polymorphic gene involved in the recruitment of polymorphonuclear neutrophils to sites of inflammation and their activation. FCGR3B may serve as a trap for immune complexes in the peripheral circulation which does not activate neutrophils.