



## Recombinant Protein Technical Manual

**Recombinant Human CD16b/FCGR3B Protein (aa 17-208, His Tag)**  
RPES1141

### Product Data:

**Product SKU:** RPES1141

**Size:** 10µg

**Species:** Human

**Expression host:** Human Cells

**Uniprot:** O75015

### Protein Information:

**Molecular Mass:** 22.7 kDa

**AP Molecular Mass:** 35-65 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°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 a 0.2 µm filtered solution of PBS, pH 7.4.

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

**Application:**

**Synonyms:** Low affinity immunoglobulin gamma Fc region receptor III-B; Fc-gamma RIII-beta; FcR0; IgG Fc receptor III; FCG3; FCGR3; CD16b and FCGR5B;FCRIII;FCRIIIb

## Immunogen Information:

**Sequence:** Gly17-Gln208

## 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.