



Recombinant Protein Technical Manual  
Recombinant Human STXBP3/UNC8C Protein (His &  
GST Tag)  
RPES5155

Product Data:

**Product SKU:** RPES5155

**Size:** 20µg

**Species:** Human

**Expression host:** Baculovirus-Insect Cells

**Uniprot:** O00186

Protein Information:

**Molecular Mass:** 95.6 kDa

**AP Molecular Mass:** 95.6 kDa

**Tag:** N-His & GST

**Bio-activity:**

**Purity:** > 82 % as determined by reducing SDS-PAGE.

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

**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 20mM Tris, 500mM NaCl, pH 8.5, 10% glycerol

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

**Application:**

**Synonyms:** MUNC18-3;MUNC18C;PSP;UNC8C

## Immunogen Information:

**Sequence:** Met 1-Glu 592

## Background:

Syntaxin-binding protein 3, also known as Platelet Sec1 protein, Protein unc8 homolog 3, Protein unc8 homolog C, Unc8C, Unc18-3 and STXBP3, is a cytoplasm protein which belongs to the STXBP/unc8/SEC1 family. STXBP3 is expressed in cells that exhibit granule exocytosis, such as neutrophils, mast cells, platelets and endothelial cells. STXBP3, together with STX4 and VAMP2, may play a role in insulin-dependent movement of GLUT4 and in docking / fusion of intracellular GLUT4-containing vesicles with the cell surface in adipocytes. STXBP3 participates in the consolidation and secretion of secondary and tertiary granules. STXBP3 contains one SEC1 domain. Phosphorylation at Ser129 may stimulate granule release. Human STXBP3 shares 90% aa identity with mouse STXBP3. STXBP3 interacts with DOC2B; the interaction is direct, occurs at the cell membrane, excludes interaction with STX4 and regulates glucose-stimulated insulin secretion. Interacts with STX4.