



# Recombinant Protein Technical Manual

## Recombinant Human STUB1 Protein

RPES2603

### Product Data:

**Product SKU:** RPES2603

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** Q9UNE7

### Protein Information:

**Molecular Mass:** 34.9 kDa

**AP Molecular Mass:** 33 kDa

**Tag:**

**Bio-activity:**

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

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

**Storage:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

**Shipping:** This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

**Formulation:** Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.

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

**Application:**

**Synonyms:** E3 Ubiquitin-Protein Ligase CHIP; Antigen NY-CO-7; CLL-Associated Antigen KW-8; Carboxy Terminus of Hsp70-Interacting Protein; STIP1 Homology and U Box-Containing Protein 1; STUB1; CHIP

## Immunogen Information:

**Sequence:** Met 1-Tyr303

## Background:

E3 Ubiquitin-Protein Ligase CHIP is a cytoplasmic protein. CHIP is highly expressed in skeletal muscle, heart, pancreas, brain and placenta. CHIP interacts with the molecular chaperones Hsc70-Hsp70 and Hsp90 through its TPR domain; lead to in client substrate ubiquitylation and degradation by the proteasome. CHIP targets misfolded chaperone substrates towards proteasomal degradation. CHIP mediates transfer of non-canonical short ubiquitin chains to HSPA8 that have no effect on HSPA8 degradation. CHIP plays a role in base-excision repair: catalyzes polyubiquitination by amplifying the HUWE1/ARF-BP1-dependent monoubiquitination and leading to POLB-degradation by the proteasome. It also may regulate the receptor stability and activity through proteasomal degradation.