



# Recombinant Protein Technical Manual

## Recombinant Human HIP2/UBE2K Protein (His Tag, SUMO Tag)

RPES2063

### Product Data:

**Product SKU:** RPES2063

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P61086

### Protein Information:

**Molecular Mass:** 34.5 kDa

**AP Molecular Mass:** 38 kDa

**Tag:** N-6His

**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 7.4.

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

**Application:**

**Synonyms:** Ubiquitin-Conjugating Enzyme E2 K; Huntingtin-Interacting Protein 2; HIP-2; Ubiquitin Carrier Protein; Ubiquitin-Conjugating Enzyme E2-25 kDa; Ubiquitin-Conjugating Enzyme E2(25K); Ubiquitin-Conjugating Enzyme E2-25K; Ubiquitin-Protein Ligase; UBE2K; HIP2; LIG

## Immunogen Information:

**Sequence:** Met 1-Asn200

## Background:

Ubiquitin-Conjugating Enzyme E2 K (UBE2K) belongs to the E2 Ubiquitin-Conjugating Enzyme family. UBE2K is highly expressed in the brain, with highest levels found in cortex and striatum, and at lower levels in cerebellum and brainstem. UBE2K may mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent degradation of p53/TP53. UBE2K is associated with the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded luminal proteins. In addition, UBE2K is involved in Alzheimer's disease, Huntington's disease and antigen processing through its interaction with huntingtin, and MHC-heavy chain proteins.