

## Product datasheet for **TP300703L**

### **UBXN1 (NM\_015853) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human UBX domain protein 1 (UBXN1), 1 mg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC200703 protein sequence  
**Red**=Cloning site **Green**=Tags(s)

MAELTALES LIEMGFPRGRAEKALALTGNQGIEAMDWLMEHEDDPDVEPLETPLGHILGREPTSSEQG  
GLEGSGSAAGEGKPALEEERQEQT KRMLELVAQKQREEREEREERERERERQRRRQGQELSAARQLQE  
DEMRRAAEERRREKAEELARQVRVKIERDKAERAKKYGGVGSQPPVVAPEPGVPSSPSQEPPTKRE  
YDQCRIQVRLPDGTLTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQE  
LGMAARLETRTRNWSREACLGKGGMQREGAL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK  
**Predicted MW:** 34.9 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol  
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.  
**Storage:** Store at -80°C.  
**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  
**RefSeq:** [NP\\_056937](#)  
**Locus ID:** 51035



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UniProt ID: [Q04323](#), [A0A024R539](#)

RefSeq Size: 1363

Cytogenetics: 11q12.3

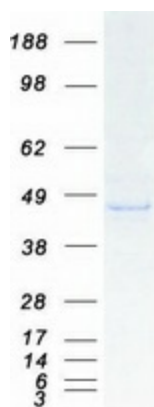
RefSeq ORF: 936

Synonyms: 2B28; SAKS1; UBXD10

**Summary:** Ubiquitin-binding protein that plays a role in the modulation of innate immune response. Blocks both the RIG-I-like receptors (RLR) and NF-kappa-B pathways. Following viral infection, UBXN1 is induced and recruited to the RLR component MAVS. In turn, interferes with MAVS oligomerization, and disrupts the MAVS/TRAF3/TRAF6 signalosome. This function probably serves as a brake to prevent excessive RLR signaling (PubMed:23545497). Interferes with the TNFalpha-triggered NF-kappa-B pathway by interacting with cellular inhibitors of apoptosis proteins (cIAPs) and thereby inhibiting their recruitment to TNFR1 (PubMed:25681446). Prevents also the activation of NF-kappa-B by associating with CUL1 and thus inhibiting NF-kappa-B inhibitor alpha/NFKBIA degradation that remains bound to NF-kappa-B (PubMed:28152074). Interacts with the BRCA1-BARD1 heterodimer and regulates its activity. Specifically binds 'Lys-6'-linked polyubiquitin chains. Interaction with autoubiquitinated BRCA1 leads to the inhibition of the E3 ubiquitin-protein ligase activity of the BRCA1-BARD1 heterodimer (PubMed:20351172). Component of a complex required to couple deglycosylation and proteasome-mediated degradation of misfolded proteins in the endoplasmic reticulum that are retrotranslocated in the cytosol.[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified UBXN1 protein (Cat# [TP300703]). The protein was produced from HEK293T cells transfected with UBXN1 cDNA clone (Cat# [RC200703]) using MegaTran 2.0 (Cat# [TT210002]).