

Product datasheet for PH300703

UBXN1 (NM_015853) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UBXN1 MS Standard C13 and N15-labeled recombinant protein (NP_056937)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200703
Predicted MW:	35.1 kDa
Protein Sequence:	>RC200703 protein sequence Red=Cloning site Green=Tags(s)

MAELTALESLEIMGFPRGRAEKALALTGNQGIEAMDWLMEHEDDPDVEPLETPLGHILGREPTSSEQG
GLEGSGSAAGEGKPALSEEERQEQTKRMLELVAQKQREREEREEREALERERQRRRQGQELSAARQLQE
DEMRRAAEERRREKAEELAAARQVREKIERDKAERAKKYGGSVGSQPPPVAPPEPGVPVSSPSQEPPTKRE
YDQCRIQVRLPDGTSLTQTFRAREQLAAVRLYVELHRGEELGGGQDPVQLLSGFPRRAFSEADMERPLQE
LGMAARLETRTRNWSREACLKGGMQREGAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_056937</u>
RefSeq Size:	1363
RefSeq ORF:	936
Synonyms:	2B28; SAKS1; UBXD10
Locus ID:	51035



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

Cytogenetics: 11q12.3

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]).