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Product datasheet for TP509271

Ubqln4 (NM_033526) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ubiquilin 4 (Ubqln4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR209271 representing NM_033526 Red=Cloning site Green=Tags(s) MAEPSGAETRPQIRVTVKTPKDKEEIVICDQASVKEFKEEISRRFKAQQDQLVLIFAGKILKDGDTLSQH GIKDGLTVHLVIKTPQKAQDPVTAAASPPSTPDSASAPSTTPASPAAAPVQPCSSGNTTSDAGSGGGPSP VAAEGPSSATASILSGFGGILGLGSLGLGSANFMELQQQMQRQLMSNPEMLSQIMENPLVQDMMSNP DLM RHMIMANPQMQQLMERNPEISHMLNNPELMRQTMELARNPAMMQEMMRNQDRALSNLESVPGGY NALRRM YTDIQEPMFTAAREQFGNNPFSSLAGNSDNSSSQPLRTENREPLPNPWSPSPPTSQAPGSGGEGTGGSGT SQVHPTVSNPFGINAASLGSGMFNSPEMQALLQQISENPQLMQNVISAPYMRTMMQTLAQNPDFAAQ MMV NVPLFAGNPQLQEQLRLQLPVFLQQMQNPESLSILTNPRAMQALLQIQQGLQTLQTEAPGLVPSLGSFG T PRTSVPLAGSNSGSSAEAPTSSPGVPATSPPSAGSNAQQQLMQQMIQLLSGSGNSQVPMPEVRFQQQL EQ LNSMGFINREANLQALIATGGDINAAIERLLGSQLS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	64 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

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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 after receiving vials.
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_277068
Locus ID:	94232
UniProt ID:	Q99NB8
RefSeq Size:	3372
Cytogenetics:	3 F1
RefSeq ORF:	1788
Synonyms:	A1u; A1Up; AI663987; CIP75; UBIN
Summary:	Regulator of protein degradation that mediates the proteasomal targeting of misfolded, mislocalized or accumulated proteins (By similarity). Acts by binding polyubiquitin chains of target proteins via its UBA domain and by interacting with subunits of the proteasome via its ubiquitin-like domain (By similarity). Key regulator of DNA repair that represses homologous recombination repair: in response to DNA damage, recruited to sites of DNA damage following phosphorylation by ATM and acts by binding and removing ubiquitinated MRE11 from damaged chromatin, leading to MRE11 degradation by the proteasome (By similarity). MRE11 degradation prevents homologous recombination repair, redirecting double-strand break repair toward non-homologous end joining (NHEJ) (By similarity). Specifically recognizes and binds mislocalized transmembrane-containing proteins and targets them to proteasomal degradation (By similarity). Collaborates with DESI1/POST in the export of ubiquitinated proteins from the nucleus to the cytoplasm (By similarity). Plays a role in the regulation of the proteasomal degradation of non-ubiquitinated GJA1 (PubMed:18079109, PubMed:20940304). Acts as an adapter protein that recruits UBQLN1 to the autophagy machinery (By similarity). Mediates the association of UBQLN1 with autophagosomes and the autophagy-related protein LC3 (MAP1LC3A/B/C) and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion (By similarity). [UniProtKB/Swiss-Prot Function]