

Recombinant Mouse Ubqln4 Protein, Myc/DDK-tagged

Cat. No. Ubqln4-6808M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length ubiquitin 4 (Ubqln4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

Description

Regulator of protein degradation that mediates the proteasomal targeting of misfolded, mislocalized or accumulated proteins. 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. 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. MRE11 degradation prevents homologous recombination repair, redirecting double-strand break repair toward non-homologous end joining (NHEJ). Specifically recognizes and binds mislocalized transmembrane-containing proteins and targets them to proteasomal degradation. Collaborates with DESI1/POST in the export of ubiquitinated proteins from the nucleus to the cytoplasm. Plays a role in the regulation of the proteasomal degradation of non-ubiquitinated GJA1. Acts as an adapter protein that recruits UBQLN1 to the autophagy machinery. 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	64 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ubqln4 ubiquilin 4 [Mus musculus (house mouse)]
Official Symbol	Ubqln4
Synonyms	UBQLN4; ubiquilin 4; ubiquilin-4; connexin43-interacting protein of 75 kDa; ataxin-1 interacting ubiquitin-like protein; ataxin-1 ubiquitin-like interacting protein; ataxin-1 ubiquitin-like-interacting protein A1U; A1u; A1Up; UBIN; CIP75; A1663987
Gene ID	94232
mRNA Refseq	NM_033526
Protein Refseq	NP_277068
UniProt ID	Q99NB8

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