

Recombinant Human USP10 Protein (A2-L798), Tag Free

Cat. No. USP10-0546H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GG-USP10(A2-L798 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	A2-L798
Description	Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, BECN1, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. In turn, PIK3C3/VPS34-containing complexes regulate USP10 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling. Involved in a TANK-dependent negative feedback response to attenuate NF-kappaB activation via deubiquitinating IKBKG or TRAF6 in response to interleukin-1-beta (IL1B) stimulation or upon DNA damage. Deubiquitinates TBX21 leading to its stabilization.

 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

Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	USP10 ubiquitin specific peptidase 10 [Homo sapiens (human)]
Official Symbol	USP10
Synonyms	USP10; ubiquitin specific peptidase 10; ubiquitin specific protease 10; ubiquitin carboxyl-terminal hydrolase 10; KIAA0190; UBPO; ubiquitin thioesterase 10; deubiquitinating enzyme 10; ubiquitin thiolesterase 10; ubiquitin-specific-processing protease 10; MGC2621;
Gene ID	9100
mRNA Refseq	NM_005153

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Protein Refseq	NP_005144
MIM	609818
UniProt ID	Q14694

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