

Active Recombinant Human USP30 protein, His-tagged

Cat. No. USP30-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human USP30(Thr57 - Glu517) fused with His tag at C-terminal was expressed in Insect cells.
Species	Human
Source	Insect Cells
ProteinLength	57-517 a.a.
Description	Ubiquitin carboxyl-terminal hydrolase 30 (USP30) is a member of the C19 family of peptidases and is tethered to the outer mitochondrial surface via a trans-membrane domain. USP30 activity is antagonistic to the pro-mitophagy signal generated by the activities of E3 Ubiquitin Ligase Parkin (PARK2) and kinase PINK1, which are stimulated by mitochondrial damage. In vivo, USP30 cleaves Ubiquitin from mitochondrial surface proteins such as MIRO1, TOMM20, MFN1, and MFN2. The enzyme displays a strong preference for K6- and K11-linked Polyubiquitin chains in vitro, but has substantially lower activity on Polyubiquitin chains that have been phosphorylated with PINK1. This recombinant protein contains amino acids 57-517 of the full-length protein, and a C-terminal 6-His tag.
Form	X mg/ml (X µM) in 50 mM HEPES pH 7.2, 0.4 M NaCl, 10% Glycerol (v/v), 2 mM TCEP
Bio-activity	Reaction conditions will need to be optimized for each specific application. We recommend an initial USP30 concentration of 20-100 nM in reactions utilizing

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	Ubiquitin-AMC or Ubiquitin-Rhodamine substrates, or 200-500 nM when digesting recombinant Polyubiquitin chain substrates.
Molecular Mass	Predicted Molecular Mass: 54 kDa
Purity	>98%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain
Storage	And avoid repeated freeze-thaw cycles. 12 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.
GENE INFORMATION	
Gene Name	USP30 ubiquitin specific peptidase 30 [Homo sapiens]
Official Symbol	USP30
Synonyms	USP30; ubiquitin specific peptidase 30; ubiquitin specific protease 30; ubiquitin carboxyl-terminal hydrolase 30; FLJ40511; MGC10702; ub-specific protease 30; ubiquitin thioesterase 30; deubiquitinating enzyme 30; ubiquitin thiolesterase 30; ubiquitin-specific protease 30; ubiquitin-specific-processing protease 30;
Gene ID	84749
mRNA Refseq	NM_032663
Protein Refseq	NP_116052
MIM	612492

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UniProt ID	Q70CQ3
Chromosome Location	12q23.3
Function	cysteine-type peptidase activity; peptidase activity; ubiquitin thiolesterase activity;

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