Recombinant Human USP13 Protein (Q2-S863), GST tagged

Cat. No. USP13-0352H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-GG-USP13(Q2-S863 end) Protein was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Q2-S863
Description	Deubiquitinase that mediates deubiquitination of target proteins such as BECN1, MITF, SKP2 and USP10 and is involved in various processes such as autophagy and endoplasmic reticulum-associated degradation (ERAD). 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. Also deubiquitinates USP10, an essential regulator of p53/TP53 stability. In turn, PIK3C3/VPS34-containing complexes regulate USP13 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Recruited by nuclear UFD1 and mediates deubiquitination of SKP2, thereby regulating endoplasmic reticulum-associated degradation (ERAD). Also regulates ERAD through the deubiquitination of UBL4A a component of the BAG6/BAT3 complex. Mediates stabilization of SIAH2 independently of deubiquitinase activity: binds ubiquitinated SIAH2 and acts by impairing SIAH2 autoubiquitination. Has a weak deubiquitinase activity in vitro and preferentially cleaves 'Lys-63'-linked

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	polyubiquitin chains. In contrast to USP5, it is not able to mediate unanchored polyubiquitin disassembly. Able to cleave ISG15 in vitro; however, additional experiments are required to confirm such data.
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	USP13 ubiquitin specific peptidase 13 (isopeptidase T-3) [Homo sapiens (human)]
Official Symbol	USP13
Synonyms	USP13; ubiquitin specific peptidase 13 (isopeptidase T-3); ubiquitin specific protease 13 (isopeptidase T 3); ubiquitin carboxyl-terminal hydrolase 13; IsoT 3; isopeptidase T-3; ubiquitin thioesterase 13; deubiquitinating enzyme 13; ubiquitin thiolesterase 13; ubiquitin-specific-processing protease 13; ubiquitin specific protease 13 (isopeptidase T-3); ISOT3; IsoT-3;

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Gene ID	8975
mRNA Refseq	NM_003940
Protein Refseq	NP_003931
MIM	603591
UniProt ID	Q92995

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