Immunotag™ USP13 Antibody

Antibody Specification

Catalog No.	ITA5465
Product Description	Immunotag™ USP13 Antibody
Size	100 µg, 200 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	USP13
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,ELISA
Recommended Dilution	WB 1:500~1:1000 IHC: 1:50~1:200
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide
Specificity	USP13 Antibody detects endogenous levels of total USP13
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	USP13
Accession No.	Q92995
Alternate Names	Deubiquitinating enzyme 13; Isopeptidase T 3; Isopeptidase T-3; Isopeptidase T3; ISOT 3; ISOT-3; ISOT3; Ubiquitin carboxyl terminal hydrolase 13; Ubiquitin carboxyl-terminal hydrolase 13; Ubiquitin specific peptidase 13 (isopeptidase T3); Ubiquitin specific peptidase 13; Ubiquitin specific processing protease 13; Ubiquitin specific protease 13; Ubiquitin thioesterase 13; Ubiquitin thiolesterase 13; Ubiquitin-specific-processing protease 13; UBP13; UBP13_HUMAN; USP 13; USP13;

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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 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.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	97 KD
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.