

Rabbit USP13 Polyclonal Antibody | anti-USP13 antibody

USP13 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325229	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

USP13; Polyclonal Antibody; USP13 Antibody; 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; anti-USP13 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	USP13 antibody detects endogenous levels of total USP13
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	863
Applicable Applications for anti-USP13 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Tissue Specificity	Highly expressed in ovary and testes.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (91%), Chicken (90%), Xenopus (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA325229 at 1/100 staining Human tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from rat rain, mouse brain, using USP13 Antibody.



WB (Western Blot)

Western blot analysis of extracts from mouse brain cells, using USP13 antibody.The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-USP13 antibody

Function: 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.

Subunit Structure: Interacts with UFD1. Interacts (via UBA domains) with SIAH2 (when ubiquitinated). Interacts with BAG6; the interaction is direct and may mediate UBL4A deubiquitination (PubMed:24424410). Interacts (via UBA 2 domain) with AMFR; the interaction is direct (PubMed:24424410). Interacts with UBL4A; may be indirect via BAG6 (PubMed:24424410).

Similarity: The UBP-type zinc finger has lost its ability to bind ubiquitin and USP13 is not activated by unanchored ubiquitin. Swapping with the UBP-type zinc finger from USP5 restores ability to bind unanchored ubiquitin and subsequent activation of the protein (PubMed:22216260).The UBA domains mediate binding to ubiquitin. Belongs to the peptidase C19 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	215598688
NCBI GeneID	8975
NCBI Accession #	NP_003931.2
NCBI GenBank Nucleotide #	NM_003940.2
UniProt Accession #	Q92995; Q96B25; A8K2S3; B4DYF3; D3DNS2
Molecular Weight	Observed: 97 kD Predicted: 98 kDa
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 13
NCBI Official Synonym Full Names	ubiquitin specific peptidase 13
NCBI Official Symbol	USP13

NCBI Official Synonym Symbols	ISOT3; IsoT-3
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 13
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 13
UniProt Gene Name	USP13
UniProt Synonym Gene Names	ISOT3; ISOT-3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/usp13-antibody-immunohistochemistry-western-blot-elisa/325229>