

Rabbit USP8 (UBPY) Polyclonal Antibody | anti-USP8 antibody

USP8 (UBPY) Antibody (C-term)

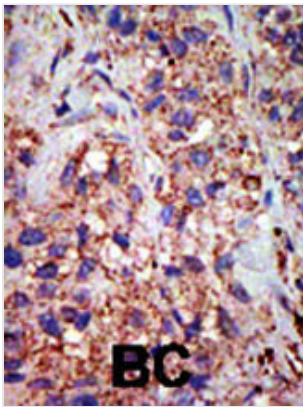
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288299	Rabbit	Human (Predicted Reactivity: Mouse)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

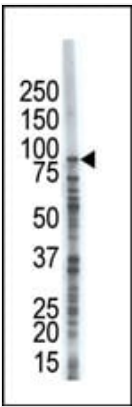
USP8 (UBPY); Polyclonal Antibody; USP8 (UBPY) Antibody (C-term); Ubiquitin carboxyl-terminal hydrolase 8; Deubiquitinating enzyme 8; Ubiquitin isopeptidase Y; hUBPY; Ubiquitin thioesterase 8; Ubiquitin-specific-processing protease 8; USP8; KIAA0055; UBPY; anti-USP8 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This USP8 (UBPY) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1058-1087 amino acids from the C-terminal region of human USP8 (UBPY).
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	1058-1087
Sequence Length	1118
Applicable Applications for anti-USP8 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. Converts both 'Lys-48' and 'Lys-63'-linked ubiquitin chains. Catalytic activity is enhanced in the M phase. Involved in cell proliferation. Required to enter into S phase in response to serum stimulation. May regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. Probably regulates the stability of STAM2 and RASGRF1. Regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. Deubiquitinates EPS15 and controls tyrosine kinase stability. Removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. Involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules. Deubiquitinates BIRC6/bruce and KIF23/MKLP1. Deubiquitinates BACE1 which inhibits BACE1 lysosomal degradation and modulates BACE-mediated APP cleavage and amyloid-beta formation (PubMed:27302062).
Cellular Location	Cytoplasm. Nucleus {ECO:0000250 UniProtKB:Q80U87} Endosome membrane; Peripheral membrane protein. Cell membrane; Peripheral membrane protein
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
The anti-USP8 Pab is used in Western blot to detect USP8 in A375 cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-USP8 antibody	Modification of target proteins by ubiquitin participates in a wide array of biological functions. Proteins destined for degradation or processing via the 26 S proteasome are coupled to multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules may also result in changes in subcellular distribution or modification of protein activity. An additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases, ubiquitin-specific processing proteases (USPs), 1 OTU-domain ubiquitin-aldehyde-binding proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four families, USPs represent the most widespread and represented deubiquitinating enzymes across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar catalytic domains containing conserved Cys and His boxes but divergent N-terminal and occasionally C-terminal extensions, which are thought to function in substrate recognition, subcellular localization, and protein-protein interactions.
Product Categories/Family for anti-USP8 antibody	Cell Biology; Signal transduction
References	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Soncini, C., et al., Oncogene 20(29):3869-3879 (2001). Nagase, T., et al., DNA Res. 3(1):17-24 (1996).

NCBI AND UNIPROT INFORMATION

NCBI GI #	190684692
NCBI GeneID	9101
NCBI Accession #	NP_001122082.1; NP_001122083.1; NP_005145.3
NCBI GenBank Nucleotide #	NM_001128610.2
UniProt Accession #	P40818; Q2TB31; Q7Z3U2; Q86VA0; Q8IWI7; B4DKA8
Molecular Weight	127523
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 8 isoform a
NCBI Official Synonym Full Names	ubiquitin specific peptidase 8
NCBI Official Symbol	USP8
NCBI Official Synonym Symbols	UBPY; SPG59; HumORF8
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 8

UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 8
UniProt Gene Name	USP8
UniProt Synonym Gene Names	KIAA0055; UBPY; hUBPy
UniProt Entry Name	UBP8_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/usp8-ubpy-antibody-immunohistochemistry-western-blot-elisa/288299>