

Rabbit USP2 Polyclonal Antibody | anti-USP2 antibody

USP2 Antibody (C-term L523)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286219	Rabbit	Human (Predicted Reactivity: Bovine, Mouse, Rat)	Immunohistochemistry, ELISA, Western Blot

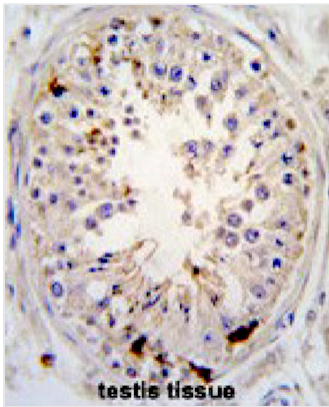
PRODUCT SYNONYMS

USP2; Polyclonal Antibody; USP2 Antibody (C-term L523); Ubiquitin carboxyl-terminal hydrolase 2; 41 kDa ubiquitin-specific protease; Deubiquitinating enzyme 2; Ubiquitin thioesterase 2; Ubiquitin-specific-processing protease 2; UBP41; anti-USP2 antibody

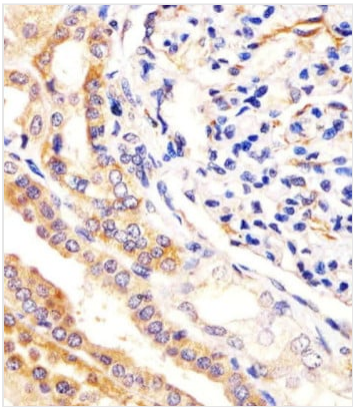
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This USP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 508-538 amino acids from the C-terminal region of human USP2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
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	508-538
Sequence Length	396
Applicable Applications for anti-USP2 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Function	Hydrolase that deubiquitinates polyubiquitinated target proteins such as MDM2, MDM4 and CCND1 (PubMed:17290220, PubMed:19917254, PubMed:19838211). Isoform 1 and isoform 4 possess both ubiquitin-specific peptidase and isopeptidase activities (By similarity). Deubiquitinates MDM2 without reversing MDM2-mediated p53/TP53 ubiquitination and thus indirectly promotes p53/TP53 degradation and limits p53 activity (PubMed:17290220, PubMed:19838211). Has no deubiquitinase activity against p53/TP53 (PubMed:17290220). Prevents MDM2-mediated degradation of MDM4 (PubMed:17290220). Plays a role in the G1/S cell-cycle progression in normal and cancer cells (PubMed:19917254). Regulates the circadian clock by modulating its intrinsic circadian rhythm and its capacity to respond to external cues (By similarity). Associates with clock proteins and deubiquitinates core clock component PER1 but does not affect its overall stability (By similarity). Regulates the nucleocytoplasmic shuttling and nuclear retention of PER1 and its repressive role on the clock transcription factors CLOCK and BMAL1 (By similarity). Plays a role in the regulation of myogenic differentiation of embryonic muscle cells (By similarity).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:O88623}. Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:O88623} Note=Localizes in the spermatid head in late-elongating spermatids in the thin area between the outer acrosomal membrane and the plasma membrane. {ECO:0000250 UniProtKB:Q5U349}
Tissue Location	Expressed in mesangial cells of the kidney and in different types of glomerulonephritides (at protein level)
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.

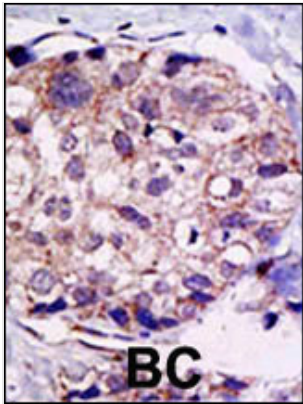
IMAGES



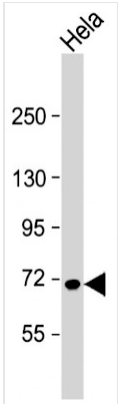
IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human testis tissue reacted with USP2 antibody (C-term L523), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



IHC (Immunohistochemistry)
AAA286219 staining USP2 in human kidney tissue sections by Immunohistochemistry (IHC-P-paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/100) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



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)
Western blot analysis of lysate from MCF-7 cell line, using USP2 Antibody (L314). AAA286219 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

ADDITIONAL INFORMATION

Related Product Information for anti-USP2 antibody	USP2, an ubiquitin-specific protease, is selectively up regulated in bone by the osteotropic agents PTH, PTHrP and PGE2 and possibly via the PKA/cAMP pathway. It is also thought to play a role in the recycling of ubiquitin by hydrolysis of branched poly-ubiquitin from linear poly-ubiquitin chains, production of free ubiquitin from linear poly-ubiquitin chains and from certain ribosomal ubiquitin fusion proteins.
Product Categories/Family for anti-USP2 antibody	Cell Biology
References	Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).

NCBI AND UNIPROT INFORMATION

NCBI GI #	344313155
NCBI GeneID	9099
NCBI Accession #	NP_001230688.1; NP_004196.4; NP_741994.1
NCBI GenBank Nucleotide #	NM_001243759.1

UniProt Accession #	O75604; Q8IUM2; Q8IW04; Q96MB9; Q9BQ21; B0YJB8; E9PPM2
Molecular Weight	68072
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 2 isoform c
NCBI Official Synonym Full Names	ubiquitin specific peptidase 2
NCBI Official Symbol	USP2
NCBI Official Synonym Symbols	USP9; UBP41
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 2
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 2
UniProt Gene Name	USP2
UniProt Synonym Gene Names	UBP41
UniProt Entry Name	UBP2_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/usp2-antibody-immunohistochemistry-western-blot-elisa/286219>