

Rabbit anti-Human USP1 Polyclonal Antibody | anti-USP1 antibody

USP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323356	Rabbit	Human	ELISA, Immunohistochemistry, Western Blot

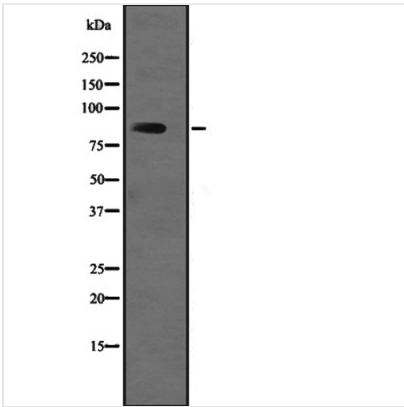
PRODUCT SYNONYMS

USP1; Polyclonal Antibody; USP1 Antibody; Deubiquitinating enzyme 1; hUBP; Ubiquitin carboxyl terminal hydrolase 1; Ubiquitin carboxyl-terminal hydrolase 1; Ubiquitin specific peptidase 1; Ubiquitin specific protease 1; Ubiquitin thioesterase 1; Ubiquitin thiolesterase 1; Ubiquitin-specific-processing protease 1; UBP; UBP1_HUMAN; USP 1; Usp1; anti-USP1 antibody

PRODUCT SPECIFICATIONS

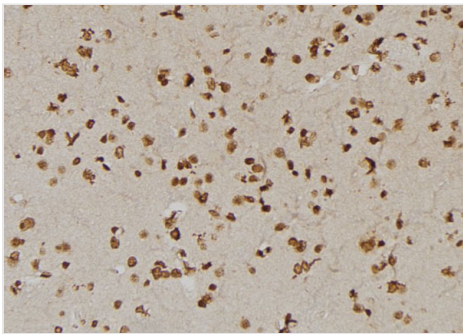
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	USP1 antibody detects endogenous levels of total USP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	785
Applicable Applications for anti-USP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Nucleus.
Tissue Specificity	Cell cycle-regulated. Highest level during S phase.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (82%), Horse (100%), Sheep (91%), Rabbit (91%), Dog (82%)
Conjugation	Unconjugated

IMAGES



WB (Western Blot)

Western blot analysis of USP1 expression in Human fetal brain lysate, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA323356 at 1/100 staining Human brain 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.

ADDITIONAL INFORMATION

Related Product Information for anti-USP1 antibody	Function: Negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2 (PubMed:15694335). Also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA (PubMed:16531995). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed:18082604, PubMed:26388029). Subunit Structure: Interacts with FANCD2 and PCNA (PubMed:15694335, PubMed:16531995). Interacts with WDR48 (PubMed:18082604, PubMed:26388029). Post-translational Modifications: Autocatalytic cleavage of USP1 following UV irradiation inactivates it leading to an increase in ubiquitinated PCNA, recruitment of POLH and translesion synthesis. Ubiquitinated; leading to its subsequent proteasomal degradation. Similarity: Belongs to the peptidase C19 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63053522
NCBI GeneID	7398
NCBI Accession #	NP_001017415.1
NCBI GenBank Nucleotide #	NM_001017415.1
UniProt Accession #	O94782; Q05BX7; Q59H66; Q9UFR0; Q9UNJ3; A0PJ95; D3DQ57
Molecular Weight	Observed: 88 kDa Predicted: 89 kDa
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 1
NCBI Official Symbol	USP1
NCBI Official Synonym Symbols	UBP
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 1
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 1
UniProt Gene Name	USP1
UniProt Synonym Gene Names	hUBP

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/usp1-antibody-immunohistochemistry-western-blot-elisa/323356>