

Rabbit USP28 Polyclonal Antibody | anti-USP28 antibody

Phospho-USP28 (Ser714) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA31438	Rabbit	Human, Mouse, Monkey	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

USP28; Polyclonal Antibody; Phospho-USP28 (Ser714) Antibody; Deubiquitinating enzyme 28; KIAA1515; Ubiquitin carboxyl terminal hydrolase 28; Ubiquitin carboxyl-terminal hydrolase 28; ubiquitin carboxyl-terminal hydrolase 28 variant 1; Ubiquitin specific peptidase 28; Ubiquitin specific processing protease 28; Ubiquitin specific protease 28; Ubiquitin thioesterase 28; Ubiquitin thiolesterase 28; Ubiquitin-specific-processing protease 28; UBP28_HUMAN; USP 28; USP28 protein; anti-USP28 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-USP28 (Ser714) Antibody detects endogenous levels of USP28 only when phosphorylated at Ser714.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-USP28 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA (Peptide ELISA)
Application Notes	WB: 1:1000-3000 IF/ICC: 1:100-1:500 IHC: 1:50-1:200 Peptide ELISA: 1:20,000-1:40,000
Immunogen	A synthesized peptide derived from human USP28 around the phosphorylation site of Ser714.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Degraded upon nickel ion level or hypoxia exposure. Phosphorylated upon DNA damage at Ser-67 and Ser-714, by ATM or ATR. Phosphorylated by PRKD1.
Subunit Structure	Interacts with ZNF304. Interacts with PRKD1. Interacts with TP53BP1. Interacts with isoform 1 of FBXW7; following DNA damage, dissociates from FBXW7 leading to degradation of MYC.
Similarity	Belongs to the peptidase C19 family. USP28 subfamily.
Subcellular Location	Nucleus>Nucleoplasm.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

At 1/100 staining Human gastric cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



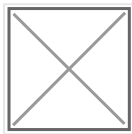
IHC (Immunohistochemistry)

At 1/100 staining Human gastric cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

At 1/100 staining Human mammary cancer 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Mouse ovarian 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 primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis USP28 (Phospho-Ser714) using UV treated COS7 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-USP28 antibody	Deubiquitinase involved in DNA damage response checkpoint and MYC proto-oncogene stability. Involved in DNA damage induced apoptosis by specifically deubiquitinating proteins of the DNA damage pathway such as CLSPN. Also involved in G2 DNA damage checkpoint, by deubiquitinating CLSPN, and preventing its degradation by the anaphase promoting complex/cyclosome (APC/C). In contrast, it does not deubiquitinate PLK1. Specifically deubiquitinates MYC in the nucleoplasm, leading to prevent MYC degradation by the proteasome: acts by specifically interacting with isoform 1 of FBXW7 (FBW7alpha) in the nucleoplasm and counteracting ubiquitination of MYC by the SCF (FBW7) complex. In contrast, it does not interact with isoform 4 of FBXW7 (FBW7gamma) in the nucleolus, allowing MYC degradation and explaining the selective MYC degradation in the nucleolus. Deubiquitinates ZNF304, hence preventing ZNF304 degradation by the proteasome and leading to the activated KRAS-mediated promoter hypermethylation and transcriptional silencing of tumor suppressor genes (TSGs) in a subset of colorectal cancers (CRC) cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16507200
NCBI GeneID	57646
NCBI Accession #	NP_065937.1
NCBI GenBank Nucleotide #	NM_020886.3
UniProt Accession #	Q96RU2; Q6NZX9; Q9P213; B0YJC0; B0YJC1
Molecular Weight	66,243 Da
NCBI Official Full Name	ubiquitin carboxyl-terminal hydrolase 28 isoform 1
NCBI Official Synonym Full Names	ubiquitin specific peptidase 28

NCBI Official Symbol	USP28
NCBI Protein Information	ubiquitin carboxyl-terminal hydrolase 28; ubiquitin thioesterase 28; deubiquitinating enzyme 28; ubiquitin thiolesterase 28; ubiquitin specific protease 28; ubiquitin-specific-processing protease 28; ubiquitin carboxyl-terminal hydrolase 28 variant 1
UniProt Protein Name	Ubiquitin carboxyl-terminal hydrolase 28
UniProt Gene Name	USP28
UniProt Synonym Gene Names	KIAA1515
UniProt Entry Name	UBP28_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/usp28-antibody-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-peptide-elisa-elisa/31438>