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USP28 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF2788a

Specification

USP28 Antibody (internal region) - Product Information

Application	**IHC**
Primary Accession	Q96RU2
Other Accession	NP_065937.1, 57646
Reactivity	**Human**
Predicted	**Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**122491**

USP28 Antibody (internal region) - Additional Information

Gene ID 57646

Other Names
Ubiquitin carboxyl-terminal hydrolase 28, 3.4.19.12, Deubiquitinating enzyme 28, Ubiquitin thioesterase 28, Ubiquitin-specific-processing protease 28, USP28, KIAA1515

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
USP28 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

USP28 Antibody (internal region) - Protein Information

Name USP28

Synonyms KIAA1515

Function
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 (PubMed:24623306).

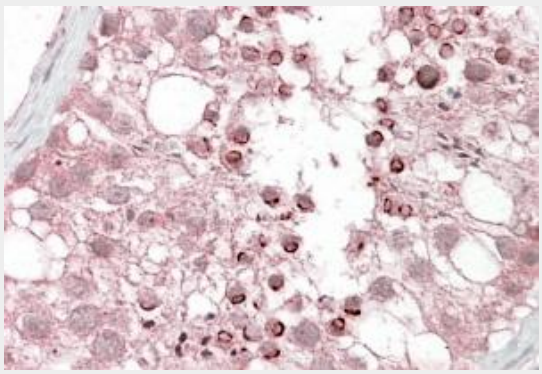
Cellular Location
Nucleus, nucleoplasm

USP28 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

USP28 Antibody (internal region) - Images



AF2788a (3.8 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

USP28 Antibody (internal region) - References

Fbw7 and Usp28 regulate myc protein stability in response to DNA damage. Popov N, Herold S, Llamazares M, Schülein C, Eilers M. Cell Cycle. 2007 Aug;6(19):2327-31. Epub 2007 Jul 26 PMID: 17873522