

Anti-USP28 (pS714) Antibody
Rabbit polyclonal antibody to USP28 (pS714)
Catalog # AP61182

Specification

Anti-USP28 (pS714) Antibody - Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | O96RU2 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 122491 |

Anti-USP28 (pS714) Antibody - Additional Information

Gene ID 57646

Other Names

KIAA1515; Ubiquitin carboxyl-terminal hydrolase 28; Deubiquitinating enzyme 28; Ubiquitin thioesterase 28; Ubiquitin-specific-processing protease 28

Target/Specificity

Recognizes endogenous levels of USP28 (pS714) protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-USP28 (pS714) Antibody - 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

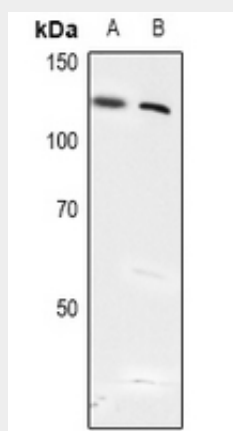
Nucleus, nucleoplasm

Anti-USP28 (pS714) Antibody - Protocols

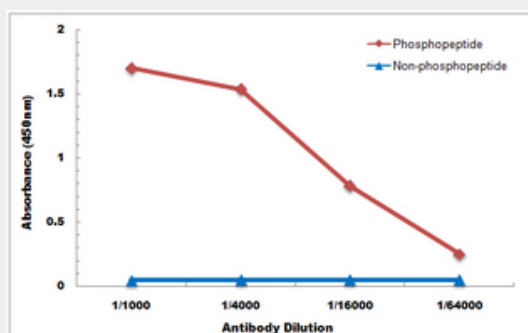
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-USP28 (pS714) Antibody - Images



Western blot analysis of USP28 (pS714) expression in Hela (A), A549 (B) whole cell lysates.



Direct ELISA antibody dose-response curve using Anti-USP28 (pS714) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) -

HRP was used as the secondary antibody, and signal was developed by TMB substrate.

Anti-USP28 (pS714) Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human USP28 (pS714). The exact sequence is proprietary.