


Anti-USP28 antibody ab70893

3 Images

Overview

Product name	Anti-USP28 antibody
Description	Rabbit polyclonal to USP28
Host species	Rabbit
Tested applications	Suitable for: WB, IP, IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Rabbit, Dog, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to a region between residue 50 and 100 of human USP28 (NP_065937.1).
Positive control	Whole cell lysates from 293T and HeLa cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab70893 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Detects a band of approximately 140, 100 kDa (predicted molecular weight: 122 kDa).
IP		Use at 2-5 µg/mg of lysate.
IHC-P		1/500 - 1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

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.

Sequence similarities

Belongs to the peptidase C19 family. USP28 subfamily.
Contains 1 UIM (ubiquitin-interacting motif) repeat.

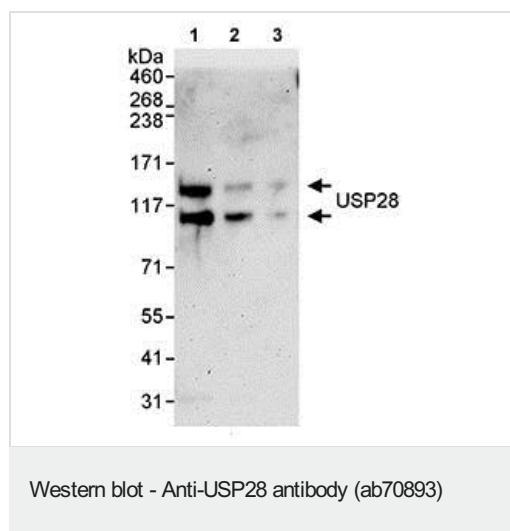
Post-translational modifications

Degradaded upon nickel ion level or hypoxia exposure.
Phosphorylated upon DNA damage at Ser-67 and Ser-714, by ATM or ATR.

Cellular localization

Nucleus > nucleoplasm.

Images



All lanes : Anti-USP28 antibody (ab70893) at 0.04 µg/ml

Lane 1 : Whole cell lysate from 293T cells at 50 µg

Lane 2 : Whole cell lysate from 293T cells at 15 µg

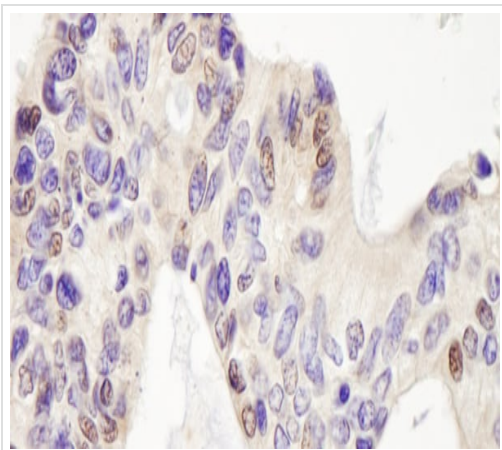
Lane 3 : Whole cell lysate from 293T cells at 5 µg

Developed using the ECL technique.

Predicted band size: 122 kDa

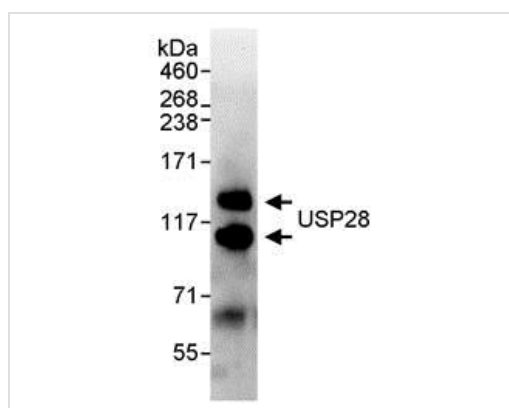
Observed band size: 110,140 kDa

Exposure time: 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-USP28 antibody (ab70893)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human ovarian carcinoma tissue labelling USP28 with ab70893 at 1/1000 (0.2µg/ml). Detection: DAB.



Immunoprecipitation - Anti-USP28 antibody (ab70893)

Detection of Human USP28 by Immunoprecipitation in Whole cell lysate from HeLa cells (1 mg for IP, 20% of IP loaded), using ab70893 at 3 µg/mg lysate for IP and at 1 µg/ml for subsequent Western blot detection. Note: bands between 55 and 71 kDa represent the IgG chains.

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