abcam

Product datasheet

Anti-USP28 antibody [EPR4250(2)] ab110744

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-USP28 antibody [EPR4250(2)]
Description	Rabbit monoclonal [EPR4250(2)] to USP28
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293T, SW480, HeLa, and A431 cell lysates.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR4250(2)

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110744 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)	1/1000 - 1/10000. Predicted molecular weight: 122 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

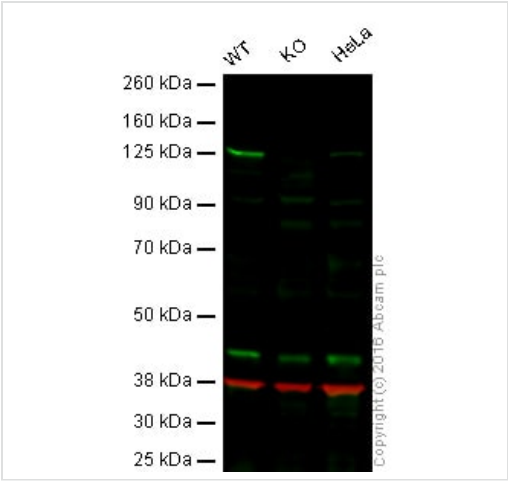
Function Deubiquitinase involved in DNA damage response checkpoint and MYC proto-oncogene stability. Involved in DNA damage induced apoptosis by specifically deubiquitinating proteins of the DNA damage pathway such as CLSPN. Also involved in G2 DNA damage checkpoint, by deubiquitinating CLSPN, and preventing 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.

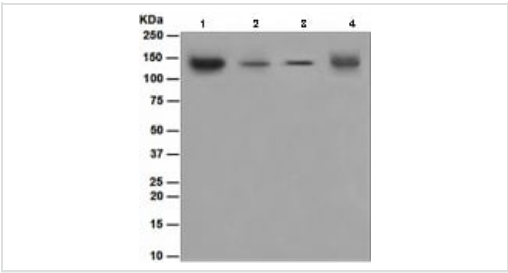
Images



Western blot - Anti-USP28 antibody [EPR4250(2)] (ab110744)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: USP28 knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lanes 1 - 3: Merged signal (red and green). Green - ab110744 observed at 128 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab110744 was shown to specifically react with USP28 when USP28 knockout samples were used, along with additional cross-reactive bands. Wild-type and USP28 knockout samples were subjected to SDS-PAGE. Ab110744 and **ab8245** (loading control to GAPDH) were diluted at 1/500 and 1/10,000 dilution respectively and incubated overnight at 4C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10,000 dilution for 1 hour at room temperature before imaging.



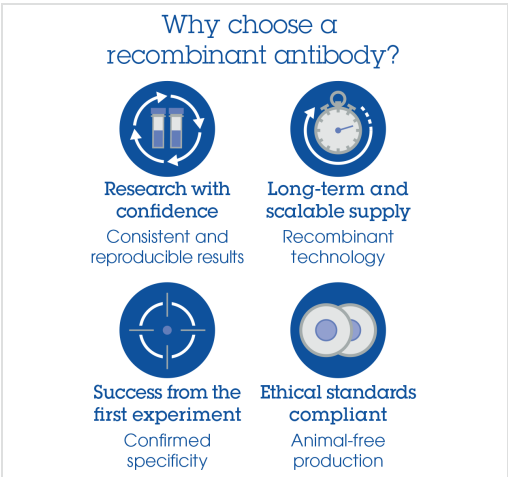
Western blot - Anti-USP28 antibody [EPR4250(2)] (ab110744)

All lanes : Anti-USP28 antibody [EPR4250(2)] (ab110744) at 1/1000 dilution

Lane 1 : 293T cell lysate
Lane 2 : SW480 cell lysate
Lane 3 : HeLa cell lysate
Lane 4 : A431 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 122 kDa



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