

Product datasheet

Anti-HAUSP / USP7 antibody - C-terminal ab71746

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Overview

Product name	Anti-HAUSP / USP7 antibody - C-terminal
Description	Rabbit polyclonal to HAUSP / USP7 - C-terminal
Host species	Rabbit
Tested applications	Suitable for: ELISA, IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human HAUSP/ USP7 (C terminal) conjugated to keyhole limpet haemocyanin.
Positive control	T47D cell lysate and human hepatocarcinoma tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: PBS
Purity	Protein G purified
Purification notes	ab71746 is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab71746 in the following tested applications.

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

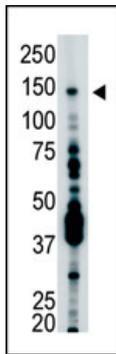
Application	Abreviews	Notes
ELISA		1/1000.

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
WB		1/100 - 1/500. Detects a band of approximately 145 kDa (predicted molecular weight: 129 kDa).

Target

Function	<p>Hydrolase that deubiquitinates target proteins such as FOXO4, p53/TP53, MDM2, ERCC6, DNMT1, UHRF1, PTEN and DAXX (PubMed:11923872, PubMed:15053880, PubMed:16964248, PubMed:18716620, PubMed:25283148). Together with DAXX, prevents MDM2 self-ubiquitination and enhances the E3 ligase activity of MDM2 towards p53/TP53, thereby promoting p53/TP53 ubiquitination and proteasomal degradation. Deubiquitinates p53/TP53, preventing degradation of p53/TP53, and enhances p53/TP53-dependent transcription regulation, cell growth repression and apoptosis (PubMed:25283148). Deubiquitinates p53/TP53 and MDM2 and strongly stabilizes p53/TP53 even in the presence of excess MDM2, and also induces p53/TP53-dependent cell growth repression and apoptosis. Deubiquitination of FOXO4 in presence of hydrogen peroxide is not dependent on p53/TP53 and inhibits FOXO4-induced transcriptional activity. In association with DAXX, is involved in the deubiquitination and translocation of PTEN from the nucleus to the cytoplasm, both processes that are counteracted by PML. Involved in cell proliferation during early embryonic development. Involved in transcription-coupled nucleotide excision repair (TC-NER) in response to UV damage: recruited to DNA damage sites following interaction with KIAA1530/UVSSA and promotes deubiquitination of ERCC6, preventing UV-induced degradation of ERCC6. Contributes to the overall stabilization and trans-activation capability of the herpesvirus 1 trans-acting transcriptional protein ICP0/VMW110 during HSV-1 infection. Involved in maintenance of DNA methylation via its interaction with UHRF1 and DNMT1: acts by mediating deubiquitination of UHRF1 and DNMT1, preventing their degradation and promoting DNA methylation by DNMT1 (PubMed:21745816). Exhibits a preference towards 'Lys-48'-linked ubiquitin chains. Increases regulatory T-cells (Treg) suppressive capacity by deubiquitinating and stabilizing the transcription factor FOXP3 which is crucial for Treg cell function (PubMed:23973222).</p>
Tissue specificity	Widely expressed. Overexpressed in prostate cancer.
Sequence similarities	<p>Belongs to the peptidase C19 family.</p> <p>Contains 1 MATH domain.</p> <p>Contains 1 USP domain.</p>
Domain	The C-terminus plays a role in its oligomerization.
Post-translational modifications	<p>Isoform 1: Phosphorylated. Isoform 1 is phosphorylated at positions Ser-18 and Ser-963. Isoform 2: Not phosphorylated.</p> <p>Isoform 1: Polyneddylated. Isoform 2: Not Polyneddylated.</p> <p>Isoform 1 and isoform 2: Not sumoylated.</p> <p>Isoform 1 and isoform 2: Polyubiquitinated by herpesvirus 1 trans-acting transcriptional protein ICP0/VMW110; leading to its subsequent proteasomal degradation. Isoform 1: Ubiquitinated at Lys-869.</p>
Cellular localization	<p>Nucleus. Cytoplasm. Nucleus, PML body. Present in a minority of ND10 nuclear bodies. Association with ICP0/VMW110 at early times of infection leads to an increased proportion of USP7-containing ND10. Colocalizes with ATXN1 in the nucleus. Colocalized with DAXX in speckled structures. Colocalized with PML and PTEN in promyelocytic leukemia protein (PML)</p>

Images



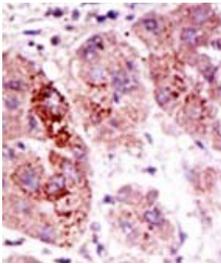
Western blot - Anti-HAUSP / USP7 antibody - C-terminal (ab71746)

Anti-HAUSP / USP7 antibody - C-terminal (ab71746) at 1/100 dilution + T47D cell lysate at 12.5 µg

Predicted band size: 129 kDa

Observed band size: 145 kDa

A lot of other bands can be seen. We do not know about the nature of these.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HAUSP / USP7 antibody - C-terminal (ab71746)

ab71746 at 1/50 dilution, staining HAUSP / USP7 in human hepatocarcinoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue, followed by peroxidase-conjugated secondary antibody and AEC staining.

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