

Product datasheet

Anti-HAUSP / USP7 antibody [3D3] ab119364

敲除 验证

7 图像

概述

产品名称	Anti-HAUSP / USP7抗体[3D3]
描述	小鼠单克隆抗体[3D3] to HAUSP / USP7
宿主	Mouse
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Human
免疫原	Recombinant full length Human HAUSP/USP7 produced in HEK293T cells (NP_003461).
阳性对照	HEK293T cell lysate transfected with pCMV6-ENTRY HAUSP/USP7 cDNA; Human tonsil, thyroid carcinoma, endometrium, endometrium adenocarcinoma and bladder carcinoma tissue.
常规说明	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 50% Glycerol, 1% BSA
纯度	Protein G purified
纯化说明	ab119364 is purified from Mouse ascites fluid by affinity chromatography.
克隆	单克隆
克隆编号	3D3
同种型	IgG1

应用

Our [Abpromise guarantee](#) covers the use of **ab119364** in the following tested applications.

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

应用	Ab评论	说明
WB		1/500 - 1/2000. Predicted molecular weight: 128 kDa.
IHC-P		1/150.

靶标

功能

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/UJSSA 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).

组织特异性

Widely expressed. Overexpressed in prostate cancer.

序列相似性

Belongs to the peptidase C19 family.
Contains 1 MATH domain.
Contains 1 USP domain.

结构域

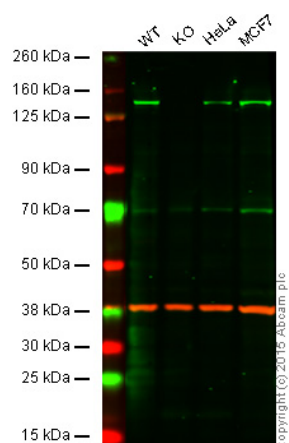
The C-terminus plays a role in its oligomerization.

翻译后修饰

Isoform 1: Phosphorylated. Isoform 1 is phosphorylated at positions Ser-18 and Ser-963.
Isoform 2: Not phosphorylated.
Isoform 1: Polyneddylated. Isoform 2: Not Polyneddylated.
Isoform 1 and isoform 2: Not sumoylated.
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.

细胞定位

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) nuclear bodies.



Western blot - Anti-HAUSP / USP7 antibody [3D3] (ab119364)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

Lane 2: HAUSP/USP7 knockout HAP1 cell lysate (20 µg)

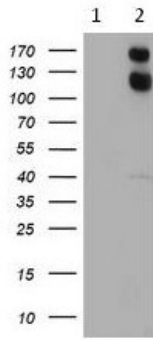
Lane 3: HeLa cell lysate (20 µg)

Lane 4: MCF7 cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green).

Green - ab119364 observed at 115 kDa. Red - loading control, [ab181602](#), observed at 37 kDa.

ab119364 was shown to recognize HAUSP/USP7 when HAUSP/USP7 knockout samples were used, along with additional cross-reactive bands. Wild-type and HAUSP/USP7 knockout samples were subjected to SDS-PAGE. ab119364 and [ab181602](#) (loading control to GAPDH) were both diluted 1/1000 and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed [ab216772](#) and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed [ab216777](#) secondary antibodies at 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-HAUSP / USP7 antibody [3D3]
(ab119364)

All lanes : Anti-HAUSP / USP7 antibody
[3D3] (ab119364) at 1/500 dilution

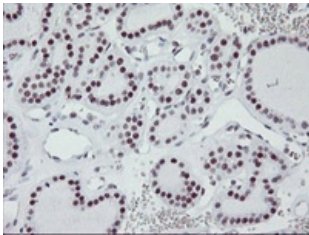
Lane 1 : HEK293T cell lysate transfected with
pCMV6-ENTRY control cDNA

Lane 2 : HEK293T cell lysate transfected with
pCMV6-ENTRY HAUSP/USP7 cDNA

Lysates/proteins at 5 µg per lane.

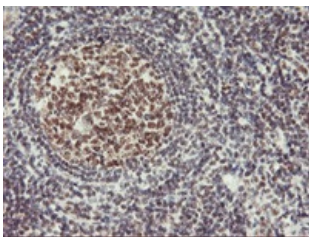
Predicted band size: 128 kDa

HEK293T cell lysates were generated from
transient transfection of the cDNA clone
(RC213986)



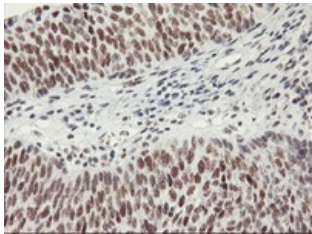
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HAUSP / USP7 antibody
[3D3] (ab119364)

ab119364 at 1/150 dilution staining
HAUSP/USP7 in Paraffin-embedded Human
thyroid carcinoma tissue by
Immunohistochemistry.



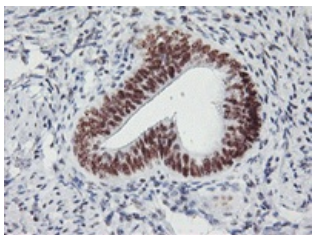
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HAUSP / USP7 antibody
[3D3] (ab119364)

ab119364 at 1/150 dilution staining
HAUSP/USP7 in Paraffin-embedded Human
tonsil tissue by Immunohistochemistry.



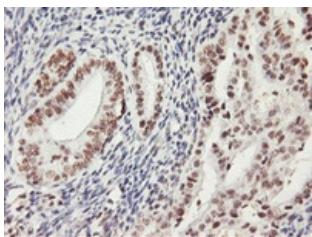
ab119364 at 1/150 dilution staining
HAUSP/USP7 in Paraffin-embedded Human
bladder carcinoma tissue by
Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HAUSP / USP7 antibody
[3D3] (ab119364)



ab119364 at 1/150 dilution staining
HAUSP/USP7 in Paraffin-embedded Human
endometrium tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HAUSP / USP7 antibody
[3D3] (ab119364)



ab119364 at 1/150 dilution staining
HAUSP/USP7 in Paraffin-embedded Human
endometrium adenocarcinoma tissue by
Immunohistochemistry.

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