

HAUSP (N-18): sc-22848

BACKGROUND

HAUSP (herpesvirus-associated ubiquitin-specific protease, USP7) is a ubiquitin-specific protease. HAUSP localizes predominantly to the nucleus, in a TD-dependent manner, where it associates with ND10. ND10 are small nuclear structures implicated in a variety of cellular processes including response to stress and interferons, oncogenesis, and viral infection. HAUSP binds strongly to Vmw110, a herpesvirus regulatory protein which has the ability to disrupt ND10. HAUSP, a novel p53-interacting protein, functions to deubiquitinate p53 in an important pathway for p53 stabilization. HAUSP strongly stabilizes p53 even in the presence of excess Mdm2, and also induces p53-dependent cell growth repression and apoptosis. The HAUSP protein is distributed in the nucleus in a micropunctate pattern with a limited number of larger discrete foci, some of which co-localize with PML in ND10. The gene encoding HAUSP maps to human chromosome band 16p13.3.

REFERENCES

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5. Li, M., Chen, D., Shiloh, A., Luo, J., Nikolaev, A.Y., Qin, J. and Gu, W. 2002. Deubiquitination of p53 by HAUSP is an important pathway for p53 stabilization. *Nature* 416: 648-653.
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CHROMOSOMAL LOCATION

Genetic locus: USP7 (human) mapping to 16p13.2; Usp7 (mouse) mapping to 16 A1.

SOURCE

HAUSP (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of HAUSP of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-22848 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

HAUSP (N-18) is recommended for detection of HAUSP of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

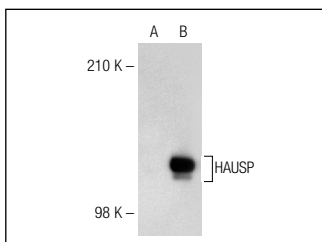
HAUSP (N-18) is also recommended for detection of HAUSP in additional species, including canine, porcine and avian.

Suitable for use as control antibody for HAUSP siRNA (h): sc-41521, HAUSP siRNA (m): sc-77373, HAUSP shRNA Plasmid (h): sc-41521-SH, HAUSP shRNA Plasmid (m): sc-77373-SH, HAUSP shRNA (h) Lentiviral Particles: sc-41521-V and HAUSP shRNA (m) Lentiviral Particles: sc-77373-V.

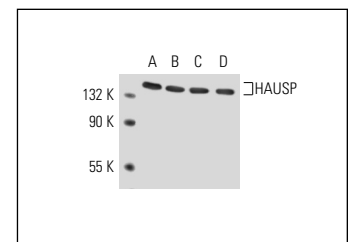
Molecular Weight of HAUSP: 135 kDa.

Positive Controls: HAUSP (m): 293T Lysate: sc-178723, A-431 whole cell lysate: sc-2201 or K-562 whole cell lysate: sc-2203.

DATA



HAUSP (N-18): sc-22848. Western blot analysis of HAUSP expression in non-transfected: sc-117752 (A) and mouse HAUSP transfected: sc-178723 (B) 293T whole cell lysates.



HAUSP (N-18): sc-22848. Western blot analysis of HAUSP expression in HeLa (A), A-431 (B), K-562 (C) and Jurkat (D) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

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Try **HAUSP (H-12): sc-137008** or **HAUSP (F-2): sc-137001**, our highly recommended monoclonal alternatives to HAUSP (N-18).