

HAUSP (H-200): sc-30164

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 16p13.2.

REFERENCES

1. Everett, R.D., et al. 1998. The disruption of ND10 during herpes simplex virus infection correlates with the Vmw110- and proteasome-dependent loss of several PML isoforms. *J. Virol.* 72: 6581-6591.
2. Robinson, P.A., et al. 1998. Assignment 1 of herpesvirus-associated ubiquitin-specific protease gene HAUSP to human chromosome band 16p13.3 by *in situ* hybridization. *Cytogenet. Cell Genet.* 83: 100.
3. Everett, R.D., et al. 1999. The ability of herpes simplex virus type 1 immediate-early protein Vmw110 to bind to a ubiquitin-specific protease contributes to its roles in the activation of gene expression and stimulation of virus replication. *J. Virol.* 73: 417-426.

CHROMOSOMAL LOCATION

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

SOURCE

HAUSP (H-200) is a rabbit polyclonal antibody raised against amino acids 11-210 mapping near the N-terminus of HAUSP of human origin.

PRODUCT

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

STORAGE

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

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.

APPLICATIONS

HAUSP (H-200) is recommended for detection of HAUSP of mouse, rat 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

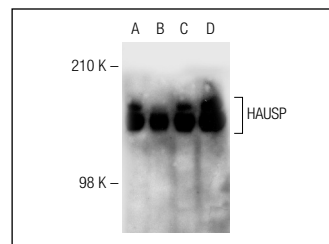
HAUSP (H-200) is also recommended for detection of HAUSP in additional species, including canine, porcine and avian.

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.

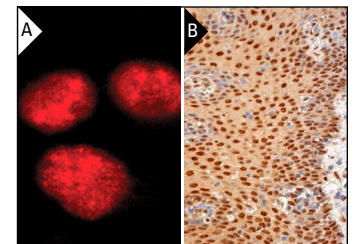
Molecular Weight of HAUSP: 135 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, A-431 whole cell lysate: sc-2201 or K-562 whole cell lysate: sc-2203.

DATA



HAUSP (H-200): sc-30164. Western blot analysis of HAUSP expression in HeLa (A), A-431 (B), K-562 (C) and Jurkat (D) whole cell lysates.



HAUSP (H-200): sc-30164. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear and cytoplasmic staining of squamous epithelial cells (B).

SELECT PRODUCT CITATIONS

1. Oveland, E., et al. 2009. Ligand-induced Flt3-downregulation modulates cell death associated proteins and enhances chemosensitivity to idarubicin in THP-1 acute myeloid leukemia cells. *Leuk. Res.* 33: 276-287.
2. Solozobova, V. and Blattner, C. 2010. Regulation of p53 in embryonic stem cells. *Exp. Cell Res.* 316: 2434-2446.
3. Théard, D., et al. 2010. USP9x-mediated deubiquitination of EFA6 regulates *de novo* tight junction assembly. *EMBO J.* 29: 1499-1509.

MONOS
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Try **HAUSP (H-12): sc-137008** or **HAUSP (F-2): sc-137001**, our highly recommended monoclonal alternatives to HAUSP (H-200).