

#3277 Store at -20°C

HAUSP Antibody

✓ 100 µl (10 western blots)

Orders ■ 877-616-CELL (2355) orders@cellsignal.com
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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #7874
Swiss-Prot Acc. #Q93009

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M, R	135 kDa	Rabbit**

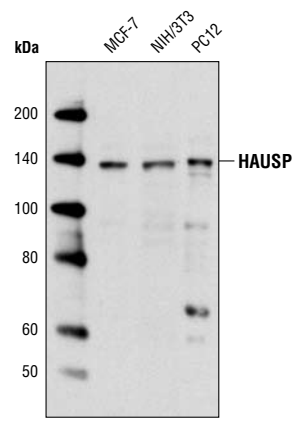
Background: Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzyme (DUB) action (1,2). Five DUB sub-families are recognized, including the USP, UCH, OTU, MJD and JAMM enzymes. HAUSP (USP7 or herpesvirus-associated ubiquitin-specific protease) is an important deubiquitinase belonging to USP subfamily. A key HAUSP function is to bind and deubiquitinate the p53 transcription factor and an associated regulator protein Mdm2, thereby stabilizing both proteins (3,4). In addition to regulating essential components of the p53 pathway, HAUSP also modifies other ubiquitinated proteins such as members of the FoxO family of forkhead transcription factors and the mitotic stress checkpoint protein CHFR (5,6).

Specificity/Sensitivity: HAUSP Antibody detects endogenous levels of total HAUSP protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp438 of human HAUSP. Antibodies are purified by peptide affinity chromatography.

Background References:

- (1) Nijman, S.M. et al. (2005) *Cell* 123, 773–86.
- (2) Nalepa, G. et al. (2006) *Nat Rev Drug Discov* 5, 596–613.
- (3) Li, M. et al. (2002) *Nature* 416, 648–53.
- (4) Brooks, C.L. et al. (2007) *Oncogene* (Epub ahead of print).
- (5) van der Horst, A. et al. (2006) *Nat Cell Biol* 8, 1064–73.
- (6) Oh, Y.M. et al. (2007) *Biochem Biophys Res Commun* 357, 615–9.



Western blot analysis of extracts from MCF-7, NIH/3T3 and PC12 cells types using HAUSP Antibody.

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.