

#4833 Store at -20C

# HAUSP (D17C6) XP® Rabbit mAb


**Cell Signaling**  
TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC	H M R Mk	Endogenous	135, 140	Rabbit IgG	#Q93009	7874

## Product Usage Information

### Application

 Western Blotting  
 Immunoprecipitation  
 Immunohistochemistry (Paraffin)  
 Immunofluorescence (Immunocytochemistry)

### Dilution

 1:1000  
 1:50  
 1:100 - 1:400  
 1:50

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #79779.

## Specificity / Sensitivity

HAUSP (D17C6) XP® Rabbit mAb detects endogenous levels of total HAUSP protein.

## Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human HAUSP protein.

## Background

Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzyme (DUB) action (1,2). Five DUB subfamilies are recognized, including the USP, UCH, OTU, MJD and JAMM enzymes. Herpesvirus-associated ubiquitin-specific protease (HAUSP, USP7) 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).

## 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* 26, 7262-6.
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.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

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

## Applications Key

**WB:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin)  
**IF-IC:** Immunofluorescence (Immunocytochemistry)

## Cross-Reactivity Key

**H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **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  
**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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