

#4217 Store at -20C

USP28 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M	Transfected Only	135	Rabbit	#Q96RU2	57646

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

Specificity / Sensitivity

USP28 Antibody detects transfected levels of USP28 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala11 of human USP28. Antibodies are purified by peptide affinity chromatography.

Background

Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzymes (DUB) action (1,2). There are five DUB subfamilies including the USP, UCH, OTU, MJD and JAMM enzymes. USP28 is an important member of the USP subfamily (3). USP28 can bind to and deubiquitinate several target proteins in DNA-damage pathway, resulting in their stability, including p53BP1 and Chk2 (4). USP28 also plays an important role in Myc related signaling by binding through FBW7α to Myc . It catalyzes the deubiquitinylation of Myc, thereby promoting its stabilization and contributing to tumor-cell growth (5).

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. Valero, R. et al. (2001) *Genome Biol* 2, RESEARCH0043.
4. Zhang, D. et al. (2006) *Cell* 126, 529-42.
5. Popov, N. et al. (2007) *Nat Cell Biol* 9, 765-74.

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

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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