| e at -20C | USP14 (D8Q6S) Rabbit mAb | | Cell Signaling | |
|-----------|--------------------------|----------------------|--|--|
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| Annligations | Depativity | Consistivity | | | |
|--|------------|--------------|--|--|--|
| For Research Use Only. Not for Use in Diagnostic Procedures. | | | | | |

| Applications: WB, IP | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 60 | Source/Isotype: Rabbit IgG | UniProt ID: #P54578 | Entrez-Gene Id: 9097 |
|--|---|---|---|--|--|---|
| Product Usage Information | We | plication estern Blotting munoprecipitation | | | Dilution 1:1000 1:100 | |
| Storage | | • | | 7.5), 150 mM NaCl, 100 not aliquot the antibody | | erol and less than |
| Specificity / Sensitiv | | , | • | endogenous levels of t eact with both isoform a | • | |
| Species predicted to react based on 1009 sequence homology | 6 | nster, Bovine, Dog | | | | |
| Source / Purification | | | | nunizing animals with a s Iman USP14 protein. | synthetic peptide corre | esponding to |
| Background | deu UCF (PO subi thro Whe subi prot docl dista the physi that | biquitinating enzyme H, OTU, MJD, and J H1/RPN11), UCH37 unit of tRNA-guanin- ugh its reversible as ereas PSMD14 appe strate degradation (9 easomal DUBs is st king of the substrate al end of the polyubi proteasome, and all siologic role for USF | e (DUB) action (1 AMM enzymes. I 7 (UCH-L5), and e transglycosylas sociation with the ears to promote s 5-8). While the ur ill uncertain, it is e with the 26S pro quitin chain, thus owing for enhance 214 in regulating y with small mole | protein ubiquitination, a ,2). Five DUB subfamilie n humans, there are thr Ubiquitin-Specific Protea e (USP14/TGT60 kDa). e PSMD2 (S2/hRPN1) s substrate degradation (3 nderlying mechanism for thought that USP14 remote tassome. Furthermore, a decreasing the affinity ced substrate stability (6 synaptic activity in mame ecule inhibitors has pote (5,12). | es are recognized, inc ee proteasomal DUBs ase 14, which is also k USP14 is recruited to subunit of the 19S regu ,4), USP14 is thought r the opposing roles of noves ubiquitin from su USP14 trims ubiquitir of the chain for the ub ,9,10). Studies have e mals (11). Research s | luding the USP, : PSMD14 mown as the 60 kDa the proteasome ulatory particle. to antagonize these two ubstrate upon residues from the iquitin receptors of lucidated a studies have shown |
| Background Refere | 2. N 3. V 4. Y 5. L 6. L 7. K 8. J 9. H 10. T 11. V | ijman, S.M. et al. (2 alepa, G. et al. (2002 erma, R. et al. (2002 ao, T. and Cohen, R ee, B.H. et al. (2010 am, Y.A. et al. (2010 acobson, A.D. et al. anna, J. et al. (2006 hrower, J.S. et al. (2011 'Arcy, P. et al. (2011 | 6) Nat Rev Drug 2) Science 298, 6 .E. (2002) Nature 3) Nature 467, 17 3) Nature 385, 73 8) Mol Biol Cell 1 (2009) J Biol Cell 3) Cell 127, 99-11 000) EMBO J 19 002) Nat Genet 3 | Discov 5, 596-613. 511-5. 5 419, 403-7. 9-84. 7-40. 19, 1072-82. 5 284, 35485-94. 1. 9 94-102. 2, 420-5. | | |

Species Reactivity

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

| 1/1/24, 11:53 AM Western Blot Buffer | USP14 (D8Q6S) Rabbit mAb (#11931) Datasheet Without Images Cell Signaling Technology IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. |
|---|--|
| Applications Key | WB: Western Blotting IP: Immunoprecipitation |
| 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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