1/18/24, 11:33 AM Revision 3

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e at -20C	USP10 (D7A5) Rabbit mAb				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.

	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit IgG	UniProt ID: #Q14694	Entrez-Gene Id: 9100		
Product Usage	Aŗ	oplication			Dil	ution		
Information	W	estern Blotting			1:1	.000		
	Im	munoprecipitation			1:2	00		
	Im	munofluorescence	Immunocytocher	nistry)	1:1	.00 - 1:400		
	eC	LIP			1:2	00		
		r more informatio binnovations.	n about eCLIP	and the RBP-eCLIP	kit, please visit Ec	lipse		
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.						
Specificity / Sensitiv	ity US	USP10 (D7A5) Rabbit mAb recognizes endogenous levels of total USP10 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human USP10 protein.						
	UC cor the pho bee red and with cor fun The US	H, OTU, MJD, and asensus cysteine an posttranslational level posphorylation. Indee en found to inhibit its diated phosphorylat istribution from the of activation in respon on USP13 and Vps34 nplexes to regulate the erefore, Beclin-1, ca P10 also functions i	DAMM enzymes. I d histidine boxes vel, USP10 appea d, interaction of L ability to catalyze ion of USP10 at T cytoplasm to the r nse to genotoxic complexes. USF the levels of this of e stability of USP n indirectly regula n the endosomal	.,2). Five DUB subfamili USP10 possesses amin representative of the US ars to be regulated throu USP10 with Ras-GAP SH e the disassembly of ubi Thr42 and Ser337 was s nucleus, where it functio stress (4). Recently, it w. P10, along with USP13, a class III PI3K. Beclin-1, a 13, which can deubiquit the p53 stability by contri compartment, where it h and cell surface express	o acid sequences that SP family of deubiquiti righ both protein-protein- dational binding pro- quitin chains (3). Furt hown to promote USF ns in p53 deubiquitina as shown that USP10 appears to deubiquitina another component of inate and stabilize the olling the DUB activity has been shown to de	t match the inating enzymes. At in interactions and otein (G3BP) has hermore, ATM- P10 stabilization and ation, stabilization, works in concert hate Vps34 t these complexes, e levels of USP10. of USP10 (5).		
Background Referen	2. N 3. S 4. Y 5. L 6. E	Aijman, S.M. et al. (2 Jalepa, G. et al. (20) Soncini, C. et al. (20) Yuan, J. et al. (2010) Liu, J. et al. (2011) C Bomberger, J.M. et a Bomberger, J.M. et a	06) Nat Rev Drug 01) Oncogene 20 Cell 140, 384-96 Cell 147, 223-34. I. (2009) J Biol C	<i>Discov</i> 5, 596-613. , 3869-79. <i>hem</i> 284, 18778-89.				
Species Reactivity	Spe	cies reactivity is det	ermined by testin	g in at least one approve	ed application (e.g., w	estern blot).		
Western Blot Buffer		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								

1/18/24, 11:33 AM	USP10 (D7A5) Rabbit mAb (#8501) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) eCLIP: eCLIP			
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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