USP2 Antibody	С	ell Signaling			
Stor	Orders:	877-616-CELL (2355) orders@cellsignal.com			
	Support:	877-678-TECH (8324)			
3036	Web:	info@cellsignal.com cellsignal.com			
%	3 Trask Lane Danvers Mas	sachusetts 01923 USA			
For Research Use Only. Not for Use in Diagnostic Procedures.					

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit	UniProt ID: #075604	Entrez-Gene Id: 9099
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sc 20°C. Do not aliquot t	odium HEPES (pH 7.5 the antibody.	5), 150 mM NaCl, 100 µg.	/ml BSA and 50% gl	ycerol. Store at –
Specificity/Se	nsitivity	USP2 Antibody recognizes endogenous levels of total USP2 protein. This antibody cross-reacts with all known USP2 splice variants but does not cross-react with USP21.			oss-reacts with all	
Species predic based on 100% homology	ted to react 6 sequence	Dog, Horse				
Source / Purifi	ication	Polyclonal antibodies residues surrounding affinity chromatograp	are produced by in J Leu387 of human ohy.	nmunizing animals with a USP2 protein. Antibodies	a synthetic peptide s are purified by pro	corresponding to otein A and peptide
Background		Ubiquitinating enzym deubiquitinating enzym UCH, OTU, MJD and J (UBP/UCH type 2) sub ubiquitin recycling an protein complexes (3) box" and "His box," w part of the active site box, is responsible fo variants (4,5).	nes (UBEs) catalyze p yme (DUB) action (1 AMM enzymes. Ubio ofamily and is chara nd in the disassemb). Characteristic of t hich contain a cons of this thiol proteas r the deubiquitinati	protein ubiquitination, a ,2). Five DUB subfamilies quitin-specific-processing cterized by its C19 peptid y of various forms of po he USP subfamily, USP2 erved cysteine and histi se. The catalytic core, wh ng activity of USP2 and i	reversible process of a re recognized, in- g protease 2 (USP2) dase activity, which lymeric ubiquitin an possesses a highly dine residue, respen- ich lies between th s present within ear	countered by cluding the USP, belongs to the USP is involved in nd ubiquitin-like conserved "Cys tively, and form e Cys box and His ch of its splice
		There is mounting ev human prostate canc stabilizing fatty acid s can bind and deubiqu enhanced cell prolifer	idence that USP2 fu er, USP2 is highly ov synthase through de uitinate both Mdm2 ration.	nctions as an oncoprote verexpressed and drives eubiquitination (6,7). It h (8) and cyclin D1 (9), wh	in through multiple tumor growth by b as also been demo ich leads to their st	e mechanisms. In inding to and nstrated that USP2 abilization and
Background R	eferences	1. Nijman, S.M. et al. (2. Nalepa, G. et al. (20 3. Wilkinson, K.D. (199 4. Gousseva, N. and E 5. Baek, S.H. et al. (19 6. Graner, E. et al. (200 7. Priolo, C. et al. (200 8. Stevenson, L.F. et a 9. Shan, J. et al. (2009	(2005) <i>Cell</i> 123, 773 006) <i>Nat Rev Drug D</i> 97) <i>FASEB J</i> 11, 1245 8aker, R.T. (2003) <i>Ge</i> 197) <i>J Biol Chem</i> 272 04) <i>Cancer Cell</i> 5, 25 06) <i>Cancer Res</i> 66, 8 I. (2007) <i>EMBO J</i> 26,) <i>Mol Cell</i> 36, 469-76	-86. <i>Viscov</i> 5, 596-613. -56. <i>ne Expr</i> 11, 163-79. , 25560-5. 53-61. 625-32. 976-86. 5.		
Species React	ivity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 k	(ey	W: Western Blotting				
Cross-Reactivi	ty Key	H: Human Mk: Monk	ey			

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