Revision 1

Cell Signaling Store at -20C **UBE2S Antibody** TECHNOLOGY® 877-616-CELL (2355) Orders: orders@cellsignal.com #9630 877-678-TECH (8324) Support: info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 26	Source/Isotype: Rabbit	UniProt ID: #Q16763	Entrez-Gene Id: 27338	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100		
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		UBE2S Antibody recognizes endogenous levels of total UBE2S protein.					
Species predicted to react based on 100% sequence homology		Bovine, Dog, Horse					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human UBE2S protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		enzymes. Ubiquitin is fin activating enzyme E1. T enzyme E2. The final ste lysine residue, which is The human anaphase p largely responsible for t regulators for proteaso for proteasomal degrad linked ubiquitin chains, utilizes, in part, the UBE	rst activated throu he activated ubiq ep is the transfer of mediated by ubiq romoting comple the timely progres mal degradation. lation during cell which occurs thro 2C/UBCH10 E2 er short Lys11-linke	uitin is then transferred of ubiquitin from E2 to a uitin-ligase enzyme E3 (x (APC/C) is a large macr sion through mitosis via Recent work has reveale cycle progression througo bugh a priming phase ar nzyme to prime substrat d chains (3,6). The Lys11	nation of a thiol este to a thiol group of u n ɛ-amino group of 1). romolecular E3 ligas a the sequential targ ed that APC/C subst gh the covalent asse nd elongation phase es for degradation -specific elongating	er with ubiquitin- ubiquitin-carrier the target protein se complex that is geting of cell cycle rates are marked embly of Lys11- e (2-5). The APC/C through the E2 enzyme,	
		In addition to the well-e been shown to be overe hypoxia signaling (9,10) proteasomal degradatio	expressed in many . Indeed, UBE2S h	/ types of human cancer las been reported to ass	(8) and has also be	en implicated in	
Background Re	ferences	1. Hershko, A. (1988) <i>J B</i> 2. Williamson, A. et al. (2 3. Jin, L. et al. (2008) <i>Cel</i> 4. Wu, T. et al. (2010) <i>Pr</i> 5. Song, L. and Rape, M 6. Summers, M.K. et al. 7. Wickliffe, K.E. et al. (2 8. Tedesco, D. et al. (2006) 10. Roos, F.C. et al. (201	2009) <i>Proc Natl Ac</i> // 133, 653-65. <i>oc Natl Acad Sci L</i> . (2010) <i>Mol Cell</i> 3 (2008) <i>Mol Cell</i> 31 011) <i>Cell</i> 144, 769)7) <i>Neoplasia</i> 9, 60) <i>Nat Med</i> 12, 809	<i>ad Sci U S A</i> 106, 18213- <i>S A</i> 107, 1355-60. 8, 369-82. , 544-56. -81. 01-13. -16.	8.		
Species Reactiv	ʻity	Species reactivity is dete	ermined by testing	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 RSA_1X					

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	W: Western Blotting IP: Immunoprecipitation			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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