e at -20C	UBE2G2 (D8Z4G) Rabbit mAb		Cell Signaling	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
82		Support:	877-678-TECH (8324)	
#63182		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 19	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #P60604	Entrez-Gene Id: 7327	
Product Usage Information		pplication /estern Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		UBE2G2 (D8Z4G) Rabbit mAb recognizes endogenous levels of total UBE2G2 protein. This antibody does not cross-react with UBE2G1 protein.					
Species predicted to react based on 100% sequence homology:		vine, Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human UBE2G2 protein.					
Background	pro cor thic an am The crit stu act (gp	becess of ubiquitination, mponents are involved bester complex with an E2 ubiquitin-carrier pr nino group of the targe e ubiquitin-conjugating tical component of the idies demonstrate that tive site (5-8). The ass	which targets p I in the protein u n E1 ubiquitin-ac otein, and then t protein lysine r g enzyme E2 G2 endoplasmic re UBE2G2 forms ociation of Ub-c chain transfer a	e that is covalently linker proteins for degradation abiquitination cascade. L ctivating enzyme. Activa from the E2 to an E3 ub esidue (1-3). 2 (UBE2G2, UBC7) is a ticulum-associated degre homodimers and preas harged UBE2G2 molect and efficient removal of r	by the 26S proteasome Ibiquitin is first activate ted ubiquitin is subseq iquitin ligase for final d ubiquitously expressed adation pathway (ERA sembles K48-linked po ules with the ER-reside	e. Three enzymatic ed by forming a uently transferred to lelivery to the ε- d E2 enzyme and AD) (4). Research oly-Ub chains at its ent E3 ligase AMFR	
Background Refere	2. F 3. F 4. F 5. E 6. F 7. L 8. L 9. L	<ol> <li>Ciechanover, A. (1998) <i>EMBO J</i> 17, 7151-60.</li> <li>Hochstrasser, M. (2000) <i>Nat Cell Biol</i> 2, E153-7.</li> <li>Hochstrasser, M. (2000) <i>Science</i> 289, 563-4.</li> <li>Katsanis, N. and Fisher, E.M. (1998) <i>Genomics</i> 51, 128-31.</li> <li>Bazirgan, O.A. and Hampton, R.Y. (2008) <i>J Biol Chem</i> 283, 12797-810.</li> <li>Ravid, T. and Hochstrasser, M. (2007) <i>Nat Cell Biol</i> 9, 422-7.</li> <li>Liu, W. et al. (2014) <i>EMBO J</i> 33, 46-61.</li> <li>Li, W. et al. (2007) <i>Nature</i> 446, 333-7.</li> <li>Li, W. et al. (2009) <i>Proc Natl Acad Sci U S A</i> 106, 3722-7.</li> <li>Chen, B. et al. (2006) <i>Proc Natl Acad Sci U S A</i> 103, 341-6.</li> </ol>					
Species Reactivity	Spe	cies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern 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 Cross-Reactivity Key		3: Western Blotting					

1/1/24, 6:58 AM	<ul> <li>UBE2G2 (D8Z4G) Rabbit mAb (#63182) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>				
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