at -	COPS5 (D15G6) Rabbit mAb				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 37	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q92905	Entrez-Gene Id: 10987
Product Usage Information	We	plication stern Blotting nunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage		•		7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensitivity		COPS5 (D15G6) Rabbit mAb recognizes endogenous levels of total COPS5 protein. This antibody does not cross-react with PSMD14/POH1.				
Species predicted t react based on 100 sequence homolog	%	nster, Xenopus, Zebra	afish, Bovine, D	og, Pig, Horse		
Source / Purificatio		oclonal antibody is p dues near the amino	-	nunizing animals with a s nan COPS5 protein.	synthetic peptide corre	sponding to
Background	array ubiq CSN parti iden 4). T was now com prote Colle Cycle COF coac As th as c dene emb isop prote prote tas c function functi	y of cellular and dever uitin-proteasome pat (18), each of which is icle, suggesting that is tified in <i>Arabidopsis</i> of the subsequent clonic soon followed by the widely accepted that plexes, and that CSN ein homeostasis thro ectively, these activiti e control, and gene e PS5/CSN5/Jab1 (c-Ju ctivator of c-Jun and she catalytic center of ell-cycle control, tran eddylation of cullins ( bedded Jab1/CSN5 M eptidase activity resp ein in humans, mice, iferation. A role for Con totionally inactivates ugh altered subcellulaters or types and has bee	elopmental proc hway. Typically, homologous to these complexe thaliana mutants of the constitu- biochemical put the CSN direct vis required for ugh its associat es position the expression (1). un activation do subsequently di the CSN, COP scription, and D 7). Indeed, COP IPN domain me ponsible for den- fission yeast, a DPS5 as a positi several key turn ar localization, co- n implicated in te ent mice display	uitously expressed mult esses, which is thought the CSN is composed of one of the eight subunits s have a common evolu s with a light-grown seed tutive morphogenesis 9 urification of the COP9-of their proper function (5) ion with protein kinases CSN as a pivotal regular main-binding protein-1) scovered to be a fifth co S5 is able to integrate m NA-damage response to PS5 harbors an Mpr1-Pa talloenzyme (JAMM) mo eddylation of CRLs. COI nd plants, which sugges tive regulator of cellular nor suppressors, such as degradation, and denedo PS5 overexpression has the initiation and progres <i>v</i> an embryonically lethal 53 and p27 (14,15).	to be attributed to its c of eight highly conserve is that form the lid of the tionary ancestor (1). C dling phenotype when (cop9) mutant from Arc ontaining multiprotein ING ligase (CRL) fami . In addition, CSN may and deubiquitinating e tor of the DNA-damage was originally identified mponent and integral ultiple functions of the by regulating the activit ad1-N-terminal (MPN) otif that is essential for PS5 is an evolutionaril ts that it is critical to ca proliferation is support is p53, RUNX3, Smad4 dylation (8-12). These is been identified in a mission of several types of	ontrol over the ed subunits (CSN1- e 26S proteasome SN was first grown in the dark (2- abidopsis thaliana complex (4). It is lies of ubiquitin E3 v also regulate nzymes. e response, cell- d as a transcriptional part of the CSN (6). CSN complex such y of CRLs through domain with an the CSN y conserved 38 kDa ell survival and ed by evidence that , and p27 Kip1 findings are umber of different of cancer (13).
Background Refere	2. Kv 3. W 4. Cl	/ei, N. and Deng, X.W wok, S.F. et al. (1996 /ei, N. et al. (1994) C hamovitz, D.A. et al. ope, G.A. and Desha	) Plant Physiol ell 78, 117-24. (1996) Cell 86,	115-21.	1-86.	

1/1/24, 7:24 AM	<ul> <li>COPS5 (D15G6) Rabbit mAb (#9444) Datasheet Without Images Cell Signaling Technology</li> <li>6. Claret, F.X. et al. (1996) <i>Nature</i> 383, 453-7.</li> <li>7. Wei, N. et al. (2008) <i>Trends Biochem Sci</i> 33, 592-600.</li> <li>8. Bech-Otschir, D. et al. (2001) <i>EMBO J</i> 20, 1630-9.</li> <li>9. Oh, W. et al. (2006) <i>J Biol Chem</i> 281, 17457-65.</li> <li>10. Wan, M. et al. (2002) <i>EMBO Rep</i> 3, 171-6.</li> <li>11. Tomoda, K. et al. (2002) <i>J Biol Chem</i> 277, 2302-10.</li> <li>12. Kim, J.H. et al. (2009) <i>J Cell Biochem</i> 107, 557-65.</li> <li>13. Shackleford, T.J. and Claret, F.X. (2010) <i>Cell Div</i> 5, 26.</li> <li>14. Tian, L. et al. (2010) <i>Oncogene</i> 29, 6125-37.</li> <li>15. Tomoda, K. et al. (2004) <i>J Biol Chem</i> 279, 43013-8.</li> </ul>
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western 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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	<ul> <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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