e at -20C	CAND1 (D1F2) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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••	rtivity: Sensitivity: R Mk Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #Q86VP6	Entrez-Gene Id: 55832		
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage	Supplied in 10 mM sodii 0.02% sodium azide. St				erol and less than		
Specificity / Sensitivity	tivity CAND1 (D1F2) Rabbit mAb recognizes endogenous levels of total CAND1 protein. Based upon sequence alignment, this antibody is not predicted to cross-react with CAND2/TIP120B.						
Species predicted to react based on 100% sequence homology:	Chicken, Dog, Pig, Guin	Chicken, Dog, Pig, Guinea Pig					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala561 of human CAND1 protein.					
Background	repeats. It functions, in p cullin-RBX complexes th recognition subunits (1 cells and analysis of the that CAND1 inhibits the binding site and the NEI is incompatible with ned CAND1 binds to cullins ability to negatively regu- cycles that allow CRLs t	Cullin-associated and neddylation-dissociated (CAND1)/TIP120A is a protein containing multiple HEAT repeats. It functions, in part, as an inhibitor of multiple cullin-RING ubiquitin ligases (CRLs) via binding to cullin-RBX complexes that are both unconjugated to NEDD8 and lack association with substrate recognition subunits (1-3). Indeed, CAND1 has been shown to bind all cullin family members in human cells and analysis of the crystal structure of human CAND1 bound to the CUL1-RBX1 complex suggests that CAND1 inhibits the activity of CRLs by sterically blocking both the substrate recognition subunit binding site and the NEDD8 conjugation site (1,3,4). Conversely, CAND1 binding to cullin-RBX complexes is incompatible with neddylation as NEDD8 conjugated to cullins blocks CAND1 binding, suggesting that CAND1 binds to cullins only after the COP9 signalosome has catalyzed cullin deneddylation. Through its ability to negatively regulate CRL assembly, CAND1 plays an integral part in facilitating CRL activation cycles that allow CRLs to utilize distinct substrate recognition subunits and protects these subunits from undergoing ubiquitin-dependent degradation (5-7).					
Background References	 Liu, J. et al. (2002) <i>Mol Cell</i> 10, 1511-8. Zheng, J. et al. (2002) <i>Mol Cell</i> 10, 1519-26. Min, K.W. et al. (2003) <i>J Biol Chem</i> 278, 15905-10. Goldenberg, S.J. et al. (2004) <i>Cell</i> 119, 517-28. Wee, S. et al. (2005) <i>Nat Cell Biol</i> 7, 387-91. Wu, J.T. et al. (2005) <i>Nat Cell Biol</i> 7, 1014-20. Cope, G.A. and Deshaies, R.J. (2006) <i>BMC Biochem</i> 7, 1. 						
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer	IMPORTANT: For wester milk, 1X TBS, 0.1% Twee	,			% w/v nonfat dry		
Applications Key	WB: Western Blotting IP	: Immunoprecipi	itation				
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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Limited Uses

CAND1 (D1F2) Rabbit mAb (#8759) Datasheet Without Images Cell Signaling Technology

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