Store at -20C

#2699

CUL4A Antibody



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

Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 80, 82	Source/Isotype: Rabbit	UniProt ID: #Q13619	Entrez-Gene Id: 8451		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
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/Ser	nsitivity	CUL4A Antibody detects endogenous levels of total human CUL4A protein.						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding residues surrounding Ser12 of human CUL4A. Antibodies are purified by peptide affinity chromatography.						
Background		Cullin-4 (CUL4) is a member of the cullin family of related ubiquitin ligases (1). A pair of mammalian CUL4 proteins have been identified: CUL4A and CUL4B. The carboxy-terminal CUL4 domain interacts with Rbx1 and E2 enzymes, while the amino-terminal CUL4 domain interacts with Bx1 and E2 enzymes, while the amino-terminal CUL4 domain interacts with the BPB domain of UV-damaged DNA-binding protein DDB1 to form a CUL4-DDB1 ubiquitin ligase complex (2). This CUL4-DDB1 complex binds a variety of WD40-containing proteins that help to enhance additional substrate recruitment (2,3). The CUL4 complex has been shown to target substrates involved in DNA repair, cell cycle progression (2), transcription (3), and development (2-6).						
Background R	eferences	1. Petroski, M.D. and Deshaies, R.J. (2005) <i>Nat Rev Mol Cell Biol</i> 6, 9-20. 2. Lee, J. and Zhou, P. (2007) <i>Mol Cell</i> 26, 775-80. 3. Higa, L.A. and Zhang, H. (2007) <i>Cell Div</i> 2, 5. 4. Ghosh, P. et al. (2008) <i>Cell Cycle</i> 7, 373-81. 5. Ohtake, F. et al. (2007) <i>Nature</i> 446, 562-6. 6. Shiyanov, P. et al. (1999) <i>J Biol Chem</i> 274, 35309-12.						
Species Reacti	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	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 IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human Mk: Monkey	,					
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