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CUL4A Antibody



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Applications: WB, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 80, 82	Source: Rabbit	UniProt ID: #Q13619	Entrez-Gene Id 8451	
Product Usage Information	Ар	Application			Dilution		
	We	estern Blotting			1:1000		
	Imi	munoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		CUL4A Antibody detects endogenous levels of total human CUL4A protein.					
Source / Purificat		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding resid surrounding Ser12 of human CUL4A. Antibodies are purified by peptide affinity chromatography.					
Background	prot Rbx DN/ bind The	Cullin-4 (CUL4) is a member of the cullin family of related ubiquitin ligases (1). A pair of mammalian CUL4 proteins - CUL4A and CUL4B - has been identified. The carboxy-terminal domain of CUL4 interacts with Rbx1 and E2 enzyme while the amino-terminal CUL4 domain interacts with 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 Refe	2. L 3. H 4. G	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.					

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IP:** Immunoprecipitation

6. Shiyanov, P. et al. (1999) J Biol Chem 274, 35309-12.

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

CD. Cuinea Dia Dah, rabbit All, all anguing avenated

GP: Guinea Pig Rab: rabbit All: all species expected

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