Cell Signaling **CUL1 Antibody** H. 877-616-CELL (2355) orders@cellsignal.com Orders: Support: 877-678-TECH (8324) info@cellsignal.com cellsignal.com Web:



3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #Q13616	Entrez-Gene Id: 8454
Product Usage Information		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/Sensitivity		The CUL1 Antibody detects endogenous levels of CUL1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues of human CUL1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		targets proteins for dec protein-ubiquitin conju the activation compone carrier protein E2, then protein lysine residue (substrate specificity (4) the dissociation is a crit of Cdc53 from yeast, is complex. Thus, CUL1 ar	gradation by the 20 gation process. Ub ent E1; the activate from E2 to ubiqui 1-3). Combinatoria . Recent data sugg tical step for ubiqit a molecular scaffo nd its family memb en shown to media	y cellular proteins by the 5S proteasome. Three co biquitin is first activated d ubiquitin is subseque tin ligase E3 for final del l interactions of differer est that activated E2 ass ination (5). Cullin homo old of the SCF (Skp1/CUL pers function in ubiquitin ate ubiquitin dependent	omponents are invo by forming a thiole ntly transferred to t livery to the epsilon at E2 and E3 protein sociates transiently log 1 (CUL1), the ma 1/F-box) E3 ubiquiti n dependent protect	lived in the target ster complex with he ubiquitin- -NH2 of the target s result in with E3, and that ammalian homolog n ligase protein lysis (6). In
Background References		 Ciechanover, A. (1998) <i>EMBO J.</i> 17, 7151-7160. Hochstrasser, M. (2000) <i>Nat Cell Biol.</i> 2, E153-E157. Hochstrasser, M. (2000) <i>Science</i> 289, 563-564. DeSalle, L.M. and Pagano, M. (2001) <i>FEBS Lett.</i> 490, 179-189. Deffenbaugh, A. E. et al. (2003) <i>Cell</i> 114, 611-622. Pan, Z. Q. et al. (2004) <i>Oncogene.</i> 23, 1985-1997. Yu, Z. K. et al. (1998) <i>Proc Natl Acad Sci.</i> 95, 11324-11329. Read, M. A. et al. (2000) <i>Mol Cell Biol.</i> 20, 2326-2333. 				
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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks ar more information.	e the property of t	heir respective owners.	Visit cellsignal.com	/trademarks for
Limited Uses		Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no				

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.