DDB-1 Antibody Cell Signaling 0rders: 877-616-CELL (2355)
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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 127	Source/Isotype: Rabbit	UniProt ID: #Q16531	Entrez-Gene Id: 1642	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM so 20°C. Do not aliquot t		ö), 150 mM NaCl, 100 μg.	/ml BSA and 50% gl	ycerol. Store at –	
Specificity/Sensitivity		DDB-1 Antibody detects endogenous levels of total DDB-1 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DDB-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		(DDB-2) that contribut (1-3). In conjunction w recognizes a broad sp photoproducts, apurit the nucleotide excisio xeroderma pigmento: deficient repair of cyc DDB-1 is a relatively a conserved in mamma indentified in XP-E pat specific targeting sub ligase complexes (11, induced DNA damage facilitate their remova	te to the formation vith CUL4A and ROC vectrum of DNA lesion n repair pathway (4 sum complementat lobutane pyrimidine bundant protein tha ls, insects, worms a cients. In association units, generally kno 12). Ubiquitination of by the DDB1-DDB2 l from the nucleoso	nsists of a 127 kDa subu of the UV-damaged DN/ C-1, the UV-DDB complex ons such as cyclobutane nismatches. The comple -6). Loss of DDB activity ion group E (XP-E) patiene e dimers in cells derived at is vital for normal cell nd plants. Unlike DDB-2 n with ROC-1 and CUL4A wm as DCAFs or CDWs, to of histone H2A, histone I 2-CUL4A-ROC1 E3 ubiqui ome in order to promote ase complexes, has also	A-binding protein co c forms an E3 ubiqu pyrimidine dimers, ex polyubiquitinates has been identified nts and has been lir from these patient function and is evo , lesions in <i>DDB-1</i> h A, DDB-1 functions t o CUL4-RING E3 ub H3 and histone H4 a tin-protein ligase co	omplex (UV-DDB) itin ligase that , 6-4 components of in a subset of aked to the s (7-10). lutionarily ave yet to be o recruit substrate- iquitin-protein at sites of UV- omplex may . DDB-1, in	
Background Re	eferences	5. Hirschfeld, S. et al. (6. Payne, A. and Chu, 7. Chu, G. and Chang, 8. Nichols, A.F. et al. (1 9. Kataoka, H. and Fuj 10. Keeney, S. et al. (1 11. He, Y.J. et al. (2006 12. Lee, J. and Zhou, P 13. Wang, H. et al. (20	93) <i>J</i> Biol Chem 268, J, G. (1993) Biochem E. (1990) Proc Natl (1990) Mol Cell Biol G. (1994) Mutat Res E. (1988) Science 24 996) <i>J Biol Chem</i> 27 iwara, Y. (1991) Biod 992) Mutat Res 273,) Genes Dev 20, 294 (2007) Mol Cell 22, 383 et al. (2006) Proc Na J. et al. (2008) Canc 08) Cell Cycle 7, 373	, 21293-300. nistry 32, 1657-66. Acad Sci USA 87, 3324-7 10, 2041-8. 310, 89-102. 42, 564-7. 71, 24317-20. chem Biophys Res Comr , 49-56. 19-54. 775-80. -94. tl Acad Sci USA 103, 258 cer Res 68, 5014-22. 3-81.	nun 175, 1139-43.		
Species Reactiv	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed 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			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey			
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