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DDB-2 (D4C4) Rabbit mAb		Cell Signaling	
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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit IgG	UniProt ID: #Q92466	Entrez-Gene Id: 1643		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sens	itivity	DDB-2 (D4C4) Rabbit mAb recognizes endogenous levels of total DDB-2 protein.						
Species predicte based on 100% s homology	ed to react sequence	Rat, Monkey						
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Ala174 of human DDB-2.						
Background		D amaged D NA- B inding Protein (DDB) consists of a 127 kDa subunit (DDB-1) and a 48 kDa subunit (DDB-2) that contribute to the formation of the UV-damaged DNA-binding protein complex (UV-DDB) (1-3). In conjunction with CUL4A and ROC-1, the UV-DDB complex forms an E3 ubiquitin ligase that recognizes a broad spectrum of DNA lesions such as cyclobutane pyrimidine dimers, 6-4 photoproducts, apurinic sites and short mismatches. The complex polyubiquitinates components of the nucleotide excision repair pathway (4-6). Loss of DDB activity has been identified in a subset of xeroderma pigmentosum complementation group E (XP-E) patients and has been linked to the deficient repair of cyclobutane pyrimidine dimers in cells derived from these patients (7-10).						
Background Ref	ferences	 Reardon, J.T. et al. (1993) <i>J Biol Chem</i> 268, 21301-8. Keeney, S. et al. (1993) <i>J Biol Chem</i> 268, 21293-300. Hwang, B.J. and Chu, G. (1993) <i>Biochemistry</i> 32, 1657-66. Chu, G. and Chang, E. (1990) <i>Proc Natl Acad Sci USA</i> 87, 3324-7. Hirschfeld, S. et al. (1990) <i>Mol Cell Biol</i> 10, 2041-8. Payne, A. and Chu, G. (1994) <i>Mutat Res</i> 310, 89-102. Chu, G. and Chang, E. (1988) <i>Science</i> 242, 564-7. Nichols, A.F. et al. (1996) <i>J Biol Chem</i> 271, 24317-20. Kataoka, H. and Fujiwara, Y. (1991) <i>Biochem Biophys Res Commun</i> 175, 1139-43. Keeney, S. et al. (1992) <i>Mutat Res</i> 273, 49-56. 						
Species Reactivi	ity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	uffer	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 Ke	у	W: Western Blotting						
Cross-Reactivity	/ Кеу	H: Human						
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