

DCP1B (D2P9W) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

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Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IZD4	Entrez-Gene Id: 196513
Product Usage Information	Y	Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:50 1:100
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		DCP1B (D2P9W) Rabbit mAb recognizes endogenous levels of total DCP1B protein. This antibody may cross-react with DCP1A.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val202 of human DCP1B protein.				
Background		mRNA decapping is an important process in the mRNA turnover (1). DCP1A and DCP2 were identified as two human decapping enzymes and homologs of the better-characterized <i>S. cerevisiae</i> enzymes. Both putative decapping enzymes interact with the regulator of nonsense transcripts 1 (UPF1) and may be recruited by UPF1 or related proteins to mRNA sequences that contain premature termination codons (1). Additional research studies demonstrate that DCP1A, DCP1B (the homolog of DCP1A) and DCP2 colocalize with decapping activation factors RCK/p54 and Lsm proteins in cytoplasmic loci (2). DCP1A, DCP1B and DCP2 are components of cytoplasmic processing (P) bodies, with hyper-phosphorylation of DCP1A during mitosis suggesting a possible mechanism of P-body regulation during the cell cycle (3,4).				
Background References		1. Lykke-Andersen, J. (2002) <i>Mol Cell Biol</i> 22, 8114-21. 2. Cougot, N. et al. (2004) <i>J Cell Biol</i> 165, 31-40. 3. Hey, F. et al. (2012) <i>J Biol Chem</i> 287, 31073-84. 4. Aizer, A. et al. (2013) <i>PLoS One</i> 8, e49783.				
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 IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key		H: Human Mk: Monkey				
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