1/1/24, 12:27 PM Revision 1

Store at -20C	Ubc9 (D26F2) XP [®] Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Only. Not for Use in Diagnostic Procedures.								
Applications	Boootivity	Soncitivity	N/1\A/ /					

Applications: WB, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 17	Source/Isotype: Rabbit IgG	UniProt ID: #P63279	Entrez-Gene Id: 7329	
Product Usage	Ap	plication				Dilution	
Information	We	estern Blotting				1:1000	
	Im	munofluorescence (Immunocytochen	nistry)		1:50	
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 / Sensiti	vity Ubo	Ubc9 (D26F) XP [®] Rabbit mAb detects endogenous levels of total Ubc9 protein.					
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding IIe125 of human Ubc9 protein.					
Background		The process of SUMO-1 conjugation is similar to that seen with ubiquitin and other forms of post- translational protein modification (1). Like ubiquitin, SUMO-1 is conjugated to its target protein by the coordinated action of ubiquitin conjugation enzymes E1, E2 and E3 (2). Ubc9 (or ube2M) is a highly conserved, 158 amino acid protein that acts as a SUMO-1 conjugating enzyme (3). Ubc9 binds to target proteins through their SUMO-1-CS (consensus sequence) domains and interacts with SUMO via the structurally conserved amino-terminal domain (3,4). Localization of Ubc9 to the nucleus and the nuclear envelope allows this enzyme to catalyze target protein sumoylation and regulate target protein nucleocytoplasmic transport and transcriptional activity (5,6). Ubc9 target proteins include a host of proteins (RAD51, RAD52, p53 and c-Jun) that regulate the cell cycle, DNA repair, and p53-dependent processes (7).					
Background References		 Geiss-Friedlander, R. and Melchior, F. (2007) Nat Rev Mol Cell Biol 8, 947-56. Tatham, M.H. et al. (2003) Biochemistry 42, 3168-79. Sampson, D.A. et al. (2001) J Biol Chem 276, 21664-9. Liu, Q. et al. (1999) J Biol Chem 274, 16979-87. Lee, G.W. et al. (1998) J Biol Chem 273, 6503-7. Pichler, A. and Melchior, F. (2002) Traffic 3, 381-7. Mo, Y.Y. and Moschos, S.J. (2005) Expert Opin Ther Targets 9, 1203-16. 					
Species Reactivity	Spee	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buffe		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	WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity Ke	X: X	 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 GP: Guinea Pig Rab: rabbit All: all species expected 					
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