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e at -20C	SUMO-1 (C9H1) Rabbit mAb	(C9H1) Rabbit mAb	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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	Reactivity: Sensitivity: Source/Isotype: H M R Mk Endogenous Rabbit IgG	UniProt ID: #P63165	Entrez-Gene Id: 7341		
Product Usage Information	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)	Dilution 1:1000 1:50 1:50 - 1:20	00		
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaC 0.02% sodium azide. Store at –20°C. Do not aliquot the a		ol and less than		
Specificity / Sensitiv		SUMO-1 (C9H1) Rabbit mAb detects recombinant SUMO-1 and endogenous levels of sumoylated proteins (e.g. SUMO-1-RanGAP at 90 kD). This antibody does not detect recombinant SUMO-2 or SUMO-3.			
Source / Purification	Monoclonal antibody is produced by immunizing animals v of human SUMO-1.	vith a synthetic peptide from th	ne amino terminus		
Background	Small ubiquitin-related modifier 1, 2 and 3 (SUMO-1, -2 ar family (1). The covalent attachment of the SUMO-1, -2 or to ubiquitination. This post-translational modification is a re cleaving a precursor protein to a mature protein. Mature S enzyme E1, conjugated to E2 and in conjunction with E3, (2). Ubiquitin and the individual SUMO family members ar biological functions. Ubiquitin predominantly regulates deg conjugated to RanGAP, PML, p53 and IkB-α to regulate ni structures, regulation of transcriptional activity and protein chains, is conjugated to topoisomerase II and APP, regula responses to environmental stress, and plays a role in the	-3 (SUMOylation) to target pro eversible, multi-step process th UMO-1, -2 or -3 is then linked SUMO-1, -2 or -3 is ligated to e all targeted to different prote gradation of its target (1). In co uclear trafficking, formation of stability (3-7). SUMO-2/-3 for tes chromosomal segregation	teins is analogous hat is initiated by to the activating the target protein ins with diverse intrast, SUMO-1 is subnuclear ms poly-(SUMO) and cellular		
Background Referen	 1. Schwartz, D.C. and Hochstrasser, M. (2003) <i>Trends Bio</i>. 2. Kim, K.I. et al. (2002) <i>J. Cell Physiol.</i> 191, 257-68. 3. Matunis, M.J. et al. (1996) <i>J. Cell Biol.</i> 135, 1457-70. 4. Duprez, E. et al. (1999) <i>J. Cell Sci.</i> 112, 381-93. 5. Gostissa, M. et al. (1999) <i>EMBO J.</i> 18, 6462-74. 6. Rodriguez, M.S. et al. (1999) <i>EMBO J.</i> 18, 6455-61. 7. Desterro, J.M. et al. (1998) <i>Mol. Cell</i> 2, 233-9. 8. Tatham, M.H. et al. (2001) <i>J. Biol. Chem.</i> 276, 35368-74 9. Azuma, Y. et al. (2003) <i>J. Cell Biol.</i> 163, 477-87. 10. Li, Y. et al. (2003) <i>Proc. Natl. Acad. Sci. USA</i> 100, 259-61. 11. Saitoh, H. and Hinchey, J. (2000) <i>J. Biol. Chem.</i> 275, 62 	4.			
Species Reactivity	Species reactivity is determined by testing in at least one a	pproved application (e.g., wes	tern blot).		
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with a 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	liluted primary antibody in 5%	w/v BSA, 1X TBS,		
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Imm	nunohistochemistry (Paraffin)			
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. GP: Guinea Pig Rab: rabbit All: all species expected 		-		

Trademarks and Patents

Limited Uses

SUMO-1 (C9H1) Rabbit mAb (#4940) Datasheet Without Images Cell Signaling Technology

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