	SUMO-1 Antibody	T E	ll Signaling снмогоду [®]
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
0		Support:	877-678-TECH (8324)
#4930		Web:	info@cellsignal.com cellsignal.com
7+-		3 Trask Lane Danvers Mas	ssachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-F, IF-IC	Reactivity : H M R Mk	2	Source: Rabbit	UniProt ID: #P63165	Entrez-Gene Id: 7341
Product Usage Information		Application Western Blotting Immunohistochemistry (I Immunofluorescence (Fr Immunofluorescence (Im	ozen))	Dilution 1:1000 1:50 1:200 1:100 - 1:400
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store a 20°C. Do not aliquot the antibody.			
Specificity / Sensit		SUMO-1 Antibody detects recombinant SUMO-1 and endogenous levels of sum SUMO-1-RanGAP, 90kD).			/lated proteins (e.g.
Source / Purification	-		SUMO-1 that does n	nizing animals with a synthetic peptid ot correspond to SUMO-2/3. Antibod	
Background		family (1). The covalent a to ubiquitination. This pos cleaving a precursor prote enzyme E1, conjugated to (2). Ubiquitin and the indi biological functions. Ubiq conjugated to RanGAP, F structures, regulation of to chains, is conjugated to to	ttachment of the SL st-translational modi ein to a mature prote o E2 and in conjunc vidual SUMO family uitin predominantly PML, p53 and IκB-α ranscriptional activit opoisomerase II and	UMO-1, -2 and -3) are members of the IMO-1, -2 or -3 (SUMOylation) to targe fication is a reversible, multi-step pro- ein. Mature SUMO-1, -2 or -3 is then the standard subscription of the start of the members are all targeted to differen regulates degradation of its target (1) to regulate nuclear trafficking, format y and protein stability (3-7). SUMO-2 I APP, regulates chromosomal segres is a role in the progression of Alzheim	tet proteins is analogous cess that is initiated by linked to the activating ted to the target protein t proteins with diverse . In contrast, SUMO-1 is ion of subnuclear /-3 forms poly-(SUMO) gation and cellular
Background Refer		1. Schwartz, D.C. and Ho 2. Kim, K.I. et al. (2002) J 3. Matunis, M.J. et al. (1999) 5. Gostissa, M. et al. (1999) 6. Rodriguez, M.S. et al. (1996) 6. Rodriguez, M.S. et al. (1997) 7. Desterro, J.M. et al. (1997) 8. Tatham, M.H. et al. (2003) 9. Azuma, Y. et al. (2003) 0. Li, Y. et al. (2003) <i>Proc</i> 1. Saitoh, H. and Hinchey	 Cell Physiol. 191, 96) J. Cell Biol. 135 J. Cell Sci. 112, 38 99) EMBO J. 18, 646 (1999) EMBO J. 18, 98) Mol. Cell 2, 233 901) J. Biol. Chem. 2 J. Cell Biol. 163, 47 Natl. Acad. Sci. US 	, 1457-70. 11-93. 62-74. 6455-61. 3-9. 76, 35368-74. '7-87. 64 100, 259-64.	
Species Reactivity	y S	Species reactivity is detern	nined by testing in a	at least one approved application (e.ç	., western blot).
Western Blot Buffe		MPORTANT: For western 0.1% Tween® 20 at 4°C w		nbrane with diluted primary antibody overnight.	in 5% w/v BSA, 1X TBS,
Applications Key		WB: Western Blotting IHC IF-IC: Immunofluorescend		emistry (Paraffin) IF-F: Immunofluore nistry)	escence (Frozen)
Cross-Reactivity k	Key				

1/1/24, 7:39 AM	SUMO-1 Antibody (#4930) Datasheet Without Images Cell Signaling Technology 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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