e at -20C	Phospho-SirT1 (Ser27) Antibody	T E		
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
7		Support:	877-678-TECH (8324)	
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#		3 Trask Lane   Danvers   Ma	ssachusetts   01923   USA	

For Research Use Only	y. Not for Use in Diagnostic Procedu	ires
	y, Not for 03c in Diagnostic i roccut	1103.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 120	Source: Rabbit	UniProt ID: #Q96EB6	Entrez-Gene Id: 23411		
Product Usage Information		pplication estern Blotting			<b>Dilution</b> 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		This antibody detects endogenous levels of SirT1 protein only when phosphoryated on serine 27. The antibody does not cross-react with other sirtuin proteins.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser27 of human SirT1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	nic dea SIF and of r hor forl (8) (2,3 and by pho	otinamide adenine di acetylases. The first of R2, which is involved d cell aging (1). SirT1 many cellular process meostasis, aging, and khead (FoxO) transci . Deacetylation of p5 3,5,6). Deacetylation d fat mobilization in w nicotinamide and act	nucleotide (NAD)-o discovered and best in silencing of mati , the mammalian o ses, including apop d longevity. Targets ription factors (5,6), 3 and FoxO transci of PPARy and PGG /hite adipocytes in ivated by resveratr phosphorylated at	lependent protein de st characterized of th ng type loci, telomer rtholog of Sir2, is a i tosis, cellular senes of SirT1 include acc PPARy (7), and the iption factors repres C-1α regulates the g response to fasting ( ol. In addition, SirT1 Ser27 and Ser47 <i>in</i>	ship conserved group of acetylases, also known ese genes is <i>Saccharor</i> e maintenance, DNA da nuclear protein implicate cence, endocrine signali etylated p53 (2,3), p300 PPARγ coactivator-1α ( ses apoptosis and incre luconeogenic/glycolytic 7,8). SirT1 deacetylase activity may be regulate <i>vivo</i> ; however, the funct	as class III histone myces cerevisiae mage response, ed in the regulation ing, glucose (4), Ku70 (5), (PGC-1α) protein ases cell survival pathways in the liver activity is inhibited ed by		
Background Refer	2. \ 3. L 4. E 5. E 6. N 7. F 8. F	Guarente, L. (1999) / /aziri, H. et al. (2001) Luo, J. et al. (2001) C Bouras, T. et al. (2002 Brunet, A. et al. (2004 Motta, M.C. et al. (2004 Rodgers, J.T. et al. (2 Beausoleil, S.A. et al.	) Cell 107, 149-159 Cell 107, 137-148. 5) J. Biol. Chem. 28 4) Science 303, 202 04) Cell 116, 551-5 ) Nature 429, 771- 005) Nature 434, 1	30, 10264-10276. L1-2015. 63. 776. 13-118.	, 12130-12135.			
Species Reactivity	Spe	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern 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		WB: Western Blotting						
Cross-Reactivity Key		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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Limited Uses

Phospho-SirT1 (Ser27) Antibody (#2327) Datasheet Without Images Cell Signaling Technology

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