at -	SirT1 (D1D7) Rabbit mAb		ell Signaling снмогоду®
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity H M R Mk		MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q96EB6	Entrez-Gene Id: 23411	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.			erol and less than		
Specificity / Sens		SirT1 (D1D7) Rabbit mAb recognizes endogenous levels of total SirT1 protein. This antibody does not cross-react with other sirtuin proteins.					
Species predicted to react based on 100% sequence homology:		Chicken, Bovine, Pig, H	lorse, Rabbit				
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe297 of human SirT1 protein.					
Background		The Silent Information F nicotinamide adenine di deacetylases. The first of <i>SIR2</i> , which is involved and cell aging (1). SirT1 of many cellular process homeostasis, aging, and forkhead (FoxO) transci (8). Deacetylation of p5 (2,3,5,6). Deacetylation and fat mobilization in w by nicotinamide and act phosphorylation, as it is phosphorylation sites ha	inucleotide (NAD) discovered and b in silencing of ma L, the mammalian ses, including apo d longevity. Targe ription factors (5, 3 and FoxO trans of PPARy and P white adipocytes i tivated by resvera phosphorylated)-dependent protein dea est characterized of the ating type loci, telomere ortholog of Sir2, is a nu optosis, cellular senesce the of SirT1 include acet 6), PPARγ (7), and the F scription factors repress GC-1α regulates the glu n response to fasting (7 atrol. In addition, SirT1 a at Ser27 and Ser47 in v	cetylases, also known se genes is <i>Saccharol</i> maintenance, DNA da uclear protein implicate ence, endocrine signal ylated p53 (2,3), p300 PPARγ coactivator-1α es apoptosis and incre iconeogenic/glycolytic ,8). SirT1 deacetylase activity may be regulated	n as class III histone myces cerevisiae amage response, ed in the regulation ling, glucose (4), Ku70 (5), (PGC-1α) protein eases cell survival pathways in the liver activity is inhibited ed by	
Background Refe		1. Guarente, L. (1999) <i>N</i> 2. Vaziri, H. et al. (2001) 3. Luo, J. et al. (2001) <i>C</i> 4. Bouras, T. et al. (2004) 5. Brunet, A. et al. (2004) 6. Motta, M.C. et al. (2004) 7. Picard, F. et al. (2004) 8. Rodgers, J.T. et al. (2) 9. Beausoleil, S.A. et al. 0. Bennett, B.T. et al. (2)) Cell 107, 149-15 Cell 107, 137-148 5) J. Biol. Chem. 4) Science 303, 2 04) Cell 116, 551 1) Nature 429, 77 2005) Nature 434, 1 (2004) Proc. Na	59. 280, 10264-10276. 011-2015. -563. 1-776. , 113-118. tl. Acad. Sci. USA 101,	12130-12135.		
Species Reactivit	y s	Species reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buff		MPORTANT: For wester 0.1% Tween® 20 at 4°C	,		primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key	,	WB: Western Blotting					

1/1/24, 9:06 AM Cross-Reactivity Key	SirT1 (D1D7) Rabbit mAb (#9475) 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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