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SirT1 (D1D7) Rabbit mAb

Applications: W, W-S	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit IgG	UniProt ID: #Q96EB6	Entrez-Gene Id: 23411
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10 - 1:50	
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.				
Specificity/Sens	sitivity	SirT1 (D1D7) Rabbit mAb recognizes endogenous levels of total SirT1 protein. This antibody does not cross-react with other sirtuin proteins.			itibody does not	
Species predict based on 100% homology		Chicken, Bovine, Pig, H	lorse, Rabbit			
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Phe297 of human SirT1 protein.				
Background		encode nicotinamide a III histone deacetylase <i>cerevisiae SIR2</i> , which response, and cell agir the regulation of many signaling, glucose hon (4), Ku70 (5), forkhead 1α) protein (8). Deacet cell survival (2,3,5,6). D pathways in the liver a deacetylase activity is i may be regulated by p	adenine dinucleotic s. The first discove is involved in silend or g (1). SirT1, the may cellular processes neostasis, aging, ar (FoxO) transcriptio ylation of p53 and beacetylation of PP/ nd fat mobilization inhibited by nicotin hosphorylation, as	amily of genes is a highl le (NAD)-dependent pro red and best characteriz sing of mating type loci, ammalian ortholog of Si , including apoptosis, co nd longevity. Targets of Si n factors (5,6), PPARy (7 FoxO transcription factor ARy and PGC-1α regulat in white adipocytes in r amide and activated by it is phosphorylated at as not yet been determ	tein deacetylases, a zed of these genes is telomere maintena r2, is a nuclear prote ellular senescence, e SirT1 include acetyla), and the PPARy coa ors represses apopto es the gluconeogen response to fasting of resveratrol. In addi Ser27 and Ser47 <i>in</i>	lso known as class s <i>Saccharomyces</i> ein implicated in endocrine ated p53 (2,3), p300 activator-1α (PGC- osis and increases ic/glycolytic (7,8). SirT1 tion, SirT1 activity
Background Re	ferences	1. Guarente, L. (1999) / 2. Vaziri, H. et al. (2001) 3. Luo, J. et al. (2001) <i>C</i> 4. Bouras, T. et al. (200 5. Brunet, A. et al. (200 6. Motta, M.C. et al. (200 7. Picard, F. et al. (2004 8. Rodgers, J.T. et al. (2 9. Beausoleil, S.A. et al 10. Bennett, B.T. et al. (2)) <i>Cell</i> 107, 149-159. <i>ell</i> 107, 137-148. 5) <i>J. Biol. Chem.</i> 28 4) <i>Science</i> 303, 201 04) <i>Cell</i> 116, 551-5 4) <i>Nature</i> 429, 771- 005) <i>Nature</i> 434, 1 . (2004) <i>Proc. Natl.</i>	0, 10264-10276. 1-2015. 63. 776. 13-118. <i>Acad. Sci. USA</i> 101, 1213	30-12135.	
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a		membrane with diluted haking, overnight.	primary antibody ir	ו 5% w/v BSA, 1X
Applications Ke	ey (W: Western Blotting W-S: Simple Western™				
Cross-Reactivit	у Кеу	H: Human M: Mouse R	:: Rat Mk: Monkey			

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