Phospho-SirT1 (Ser47) Antibody





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

Applications: W, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #Q96EB6	Entrez-Gene Id: 23411
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)		Dilution 1:2000 1:25 1:100 1:100
Storage		Supplied in 10 mM so 20°C. Do not aliquot t		i), 150 mM NaCl, 100 μg/	ml BSA and 50% gl	ycerol. Store at –
Specificity/Sen	sitivity			ndogenous levels of Sir ⁻ -react with other sirtuin		n phosphoryated
Source / Purific	ation		dues surrounding S	munizing animals with a er47 of human SirT1. An		
Background		encode nicotinamide III histone deacetylas <i>cerevisiae SIR2</i> , which response, and cell agi the regulation of mar signaling, glucose ho (4), Ku70 (5), forkheac 1a) protein (8). Deace cell survival (2,3,5,6). pathways in the liver deacetylase activity is may be regulated by	adenine dinucleotic es. The first discove is involved in silend ing (1). SirT1, the ma y cellular processes meostasis, aging, ar d (FoxO) transcriptio tylation of p53 and Deacetylation of PP/ and fat mobilization inhibited by nicotin phosphorylation, as	amily of genes is a highly le (NAD)-dependent proi red and best characteriz sing of mating type loci, ammalian ortholog of Sin , including apoptosis, ce nd longevity. Targets of S n factors (5,6), PPARy (7) FoxO transcription facto ARy and PGC-1α regulate in white adipocytes in r amide and activated by it is phosphorylated at S as not yet been determi	tein deacetylases, a ed of these genes i telomere maintena r2, is a nuclear prot ellular senescence, o sirT1 include acetyla n and the PPARy coa rs represses apopto es the gluconeogen esponse to fasting resveratrol. In addi Ser27 and Ser47 <i>in</i>	llso known as class s <i>Saccharomyces</i> ance, DNA damage tein implicated in endocrine ated p53 (2,3), p300 activator-1α (PGC- osis and increases nic/glycolytic (7,8). SirT1 tion, SirT1 activity
Background Re	eferences	1. Guarente, L. (1999) 2. Vaziri, H. et al. (200 3. Luo, J. et al. (2001) 4. Bouras, T. et al. (20 5. Brunet, A. et al. (20 6. Motta, M.C. et al. (20 8. Rodgers, J.T. et al. (20 9. Beausoleil, S.A. et a 10. Kozako, T. et al. (2	1) <i>Cell</i> 107, 149-159. <i>Cell</i> 107, 137-148. 05) <i>J. Biol. Chem.</i> 28 04) <i>Science</i> 303, 201 004) <i>Cell</i> 116, 551-5 4) <i>Nature</i> 429, 771- 2005) <i>Nature</i> 434, 1 I. (2004) <i>Proc. Natl.</i>	1-2015. 63. 776. 13-118. <i>Acad. Sci. USA</i> 101, 1213	0-12135.	
Species Reactiv	/ity	Species reactivity is d	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot B	uffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ii	n 5% w/v BSA, 1X
Applications Ke	ey	W: Western Blotting I FP: Flow Cytometry (F		ition IF-IC: Immunofluor)	rescence (Immunoc	ytochemistry) FC-
Cross-Reactivit	у Кеу	H: Human				

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