## SirT1 (C14H4) Rabbit mAb



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

<b>Applications:</b> W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 120	Source/Isotype: Rabbit	UniProt ID: #Q96EB6	Entrez-Gene Id 23411
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SirT1 (C14H4) Rabbit mAb detects endogenous levels of total SirT1 protein. This antibody does not cross-react with other sirtuin proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of the human SirT1 protein.				
Background		response, and cell aging the regulation of many of signaling, glucose home (4), Ku70 (5), forkhead (F 1a) protein (8). Deacetyl cell survival (2,3,5,6). De pathways in the liver an	lenine dinucleotic. The first discove involved in silen (1). SirT1, the modellular processes eostasis, aging, a foxO) transcriptication of p53 and acetylation of PPd fat mobilization hibited by nicotinosphorylation, as	de (NAD)-dependent pro ered and best characterize icing of mating type loci, ammalian ortholog of Si s, including apoptosis, co nd longevity. Targets of So on factors (5,6), PPARy (7 FoxO transcription factory PARy and PGC-1a regulate in in white adipocytes in re mamide and activated by s it is phosphorylated at	tein deacetylases, a zed of these genes i telomere maintena r2, is a nuclear prot ellular senescence, SirT1 include acetyl ), and the PPARy co ors represses apopti es the gluconeoger response to fasting resveratrol. In addi Ser27 and Ser47 in	also known as class is Saccharomyces ance, DNA damage tein implicated in tendocrine ated p53 (2,3), p300 activator-1α (PGC-posis and increases aic/glycolytic (7,8). SirT1 tion, SirT1 activity
Background References		<ol> <li>Guarente, L. (1999) Nat. Genet. 23, 281-285.</li> <li>Vaziri, H. et al. (2001) Cell 107, 149-159.</li> <li>Luo, J. et al. (2001) Cell 107, 137-148.</li> <li>Bouras, T. et al. (2005) J. Biol. Chem. 280, 10264-10276.</li> <li>Brunet, A. et al. (2004) Science 303, 2011-2015.</li> <li>Motta, M.C. et al. (2004) Cell 116, 551-563.</li> <li>Picard, F. et al. (2004) Nature 429, 771-776.</li> <li>Rodgers, J.T. et al. (2005) Nature 434, 113-118.</li> <li>Beausoleil, S.A. et al. (2004) Proc. Natl. Acad. Sci. USA 101, 12130-12135.</li> <li>Kozako, T. et al. (2015) Sci Rep 5, 11345.</li> </ol>				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western 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  $4^{\circ}$ C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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