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

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/Sensitivity		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 / Purification		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 may be regulated by p	adenine dinucleotic es. The first discove is involved in silend or (1). SirT1, the may cellular processes neostasis, aging, ar (FoxO) transcriptio ylation of p53 and Deacetylation of PP/ and fat mobilization inhibited by nicotin hosphorylation, as	amily of genes is a high de (NAD)-dependent pro- red and best characteri- cing of mating type loci ammalian ortholog of S s, including apoptosis, of n factors (5,6), PPARy (7 FoxO transcription factor ARy and PGC-1α regular i m white adipocytes in namide and activated by it is phosphorylated at as not yet been determ	tein deacetylases, a zed of these genes i , telomere maintena ir2, is a nuclear prot cellular senescence, of SirT1 include acetyla 7), and the PPARγ coo ors represses apopto tes the gluconeogen response to fasting y 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 aic/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) 4. Bouras, T. et al. (200 5. Brunet, A. et al. (200 6. Motta, M.C. et al. (200 7. Picard, F. et al. (200 8. Rodgers, J.T. et al. (2 9. Beausoleil, S.A. et al 10. Bennett, B.T. et al.) <i>Cell</i> 107, 149-159 <i>Cell</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. 11-2015. 63. 776. 13-118. <i>Acad. Sci. USA</i> 101, 121	30-12135.		
Species Reactiv	ity	Species reactivity is de	termined by testin	g in at least one approv	ed 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°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting W-S: Simple Western™					
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey					

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