SirT1 (D739) Antibody



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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 120	Source/Isotype: Rabbit	UniProt ID: #Q96EB6	Entrez-Gene Id: 23411
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence		nistry)		Dilution 1:1000 1:50 1:50
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		SirT1 (D739) Antibody detects endogenous levels of total SirT1 protein. This antibody does not cross-react with other sirtuin proteins.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human SirT1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		encode nicotinamide III histone deacetylase cerevisiae SIR2, which response, and cell agi the regulation of man signaling, glucose hor (4), Ku70 (5), forkhead 10) protein (8). Deacet cell survival (2,3,5,6). I pathways in the liver of deacetylase activity is may be regulated by p	adenine dinucleoti es. The first discove is involved in siler ng (1). SirT1, the m y cellular processe meostasis, aging, a l (FoxO) transcription tylation of p53 and Deacetylation of PF and fat mobilization inhibited by nicotion	amily of genes is a highly de (NAD)-dependent propered and best characterized and best characterized and best characterized and best characterized and some and some and longevity. Targets of Son factors (5,6), PPARY (7) FOXO transcription factors (ARY and PGC-1a regulated in white adipocytes in remainde and activated by so it is phosphorylated at the sone and total peterminant of the sone and the sone determinant is and the sone determinant and sone and settlement of the sone	tein deacetylases, a ted of these genes telomere maintena r2, is a nuclear prof ellular senescence, SirT1 include acetyl), and the PPARγ co ars represses apopt es the gluconeoger response to fasting resveratrol. In add Ser27 and Ser47 <i>in</i>	also known as class is Saccharomyces ance, DNA damage tein implicated in endocrine ated p53 (2,3), p300 activator-1α (PGC-osis and increases nic/glycolytic (7,8). SirT1 activity
Background References		1. Guarente, L. (1999) <i>Nat. Genet.</i> 23, 281-285. 2. Vaziri, H. et al. (2001) <i>Cell</i> 107, 149-159. 3. Luo, J. et al. (2001) <i>Cell</i> 107, 137-148. 4. Bouras, T. et al. (2005) <i>J. Biol. Chem.</i> 280, 10264-10276. 5. Brunet, A. et al. (2004) <i>Science</i> 303, 2011-2015. 6. Motta, M.C. et al. (2004) <i>Cell</i> 116, 551-563. 7. Picard, F. et al. (2004) <i>Nature</i> 429, 771-776. 8. Rodgers, J.T. et al. (2005) <i>Nature</i> 434, 113-118. 9. Beausoleil, S.A. et al. (2004) <i>Proc. Natl. Acad. Sci. USA</i> 101, 12130-12135.				
Species Reactiv	rity	Species reactivity is de	etermined by testir	ng in at least one approve	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 **IP**: Immunoprecipitation **IF-IC**: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human Mk: Monkey

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