SirT6 (D10A4) Rabbit mAb Orders: Support: Web:





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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 42	Source/Isotype: Rabbit IgG	UniProt ID: #Q8N6T7	Entrez-Gene Id: 51548		
Product Usage Information	2	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:200			
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.				ol and less than		
Specificity/Sensitivity		SirT6 (D10A4) Rabbit mAb recognizes endogenous levels of total SirT6 protein. This antibody does not cross-react with other sirtuin proteins. This antibody detects a non-specific protein at 70 kDa of unknown origin.						
Source / Purifi	PurificationMonoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human SirT6 protein.				n specific to the			
Background		The Silent Information Regulator (Sir2) family of genes is a highly conserved group of genes that encode nicotinamide adenine dinucleotide (NAD)-dependent protein deacetylases, also known as class III histone deacetylases. The first discovered and best characterized of this family is <i>Saccharomyces</i> <i>cerevisiae</i> Sir2, which is involved in silencing of mating type loci, telomere maintenance, DNA damage response, and cell aging (1). SirT6, a mammalian homolog of Sir2, is a nuclear, chromatin-associated protein that promotes the normal maintenance of genome integrity mediated by the base excision repair (BER) pathway (2-4). The BER pathway repairs single-stranded DNA lesions that arise spontaneously from endogenous alkylation, oxidation, and deamination events. SirT6 deficient mice show increased sensitivity to DNA-damaging agents, including the alkylating agents MMS and H ₂ O ₂ (2). In addition, these mice show genome instability with increased frequency of fragmented chromosomes, detached centromeres, and gaps (2). SirT6 may regulate the BER pathway by deacetylating DNA Pol β or other core components of the pathway (2).						
Background R	eferences	1. Guarente, L. (1999) / 2. Mostoslavsky, R. et a 3. Liszt, G. et al. (2005) 4. Michishita, E. et al. (2	al. (2006) <i>Cell</i> 124, 1 <i>J Biol Chem</i> 280, 2	315-29. 1313-20.				
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Buffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	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 K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivi	ty Key	H: Human						
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