SirT6 (D8D12) Rabbit mAb		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
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#12486	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane Danvers Mas	ssachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 42, 36	Source/Isotype: Rabbit IgG	UniProt ID: #Q8N6T7	Entrez-Gene Id: 51548	
		Enabyenede	12,00			01010	
Product Usage	A	Application		Dilution			
Information	V	Western Blotting			1:1000		
	Ir	Immunoprecipitation			1:200		
	Ir	Immunofluorescence (Immunocytochemistry)			1:50 - 1:100		
Storage		upplied in 10 mM sodi 02% sodium azide. S	, i i i i i i i i i i i i i i i i i i i	ug/ml BSA, 50% glycerol and less than			
Specificity / Sensitiv		SirT6 (D8D12) Rabbit mAb recognizes endogenous levels of total SirTe cross-react with other sirtuin proteins.			al SirT6 protein. This a	irT6 protein. This antibody does not	
Source / Purificatior		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to full-length mouse SirT6 protein.					
Background	nid de wh ag thu Th all da ins Si	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 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_2O_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 Referer	2. 3.	 Guarente, L. (1999) Nat Genet 23, 281-5. Mostoslavsky, R. et al. (2006) Cell 124, 315-29. Liszt, G. et al. (2005) J Biol Chem 280, 21313-20. Michishita, E. et al. (2005) Mol Biol Cell 16, 4623-35. 					
Species Reactivity	Spe	ecies reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	estern 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	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Imm				rtochemistry)	
Cross-Reactivity Ke	X :	Xenopus Z: zebrafish	man M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster mopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse Guinea Pig Rab: rabbit All: all species expected				
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SirT6 (D8D12) Rabbit mAb (#12486) Datasheet Without Images Cell Signaling Technology

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