For Research Use Only

Multi-rAb[™] SIRT1 Multi-Recombinant antibody Catalog Number:RMX00009

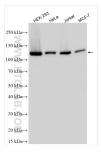


Basic Information	Catalog Number: RMX00009 Size: 100ul, Concentration: 800 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG	GenBank Accession Number: BC012499 GeneID (NCBI): 23411	Purification Method: N/A	
			Recommended Dilutions: WB 1:2000-1:16000	
		UNIPROT ID: Q96EB6	IHC 1:250-1:1000 IF/ICC 1:500-1:2000	
		Full Name: sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae) Calculated MW: 747 aa, 82 kDa		
				Observed MW: 110-130 kDa
		Applications	Tested Applications: WB, IHC, IF/ICC, ELISA	
Species Specificity: human, mouse, rat	IHC : ht		WB : HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 cells IHC : human colon cancer tissue, mouse testis tissue, rat testis tissue IF/ICC : A431 cells,	
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	etrieval with IF/ICC vely, antigen			
Background Information	SIRT1, also named SIR2L1, contains a deacetylase sirtuin-type domain and belongs to the sirtuin family. The post- translation modified SIRT1 is a 110-130 kDa protein containing one deacetylase sirtuin-type domain. The 75-80 kDa SirT1 fragment was detected to lack the carboxy-terminus (PMID:21305533). SirT1 exists a 57-61 kDa isoform. SIRT1 may be found in nucleolus, nuclear euchromatin, heterochromatin, and inner membrane. It can shuttle between the nucleus and cytoplasm. SIRT1 regulates processes such as apoptosis and muscle differentiation by deacetylating key proteins. SIRT1 in particular initiates several signaling events relevant to cardioprotection, including activation of endothelial nitric oxide synthase, INS receptor signaling, and autophagy. In addition, SIRT1 activation elicits resistance to oxidative stress via the regulation of transcription factors and co-activators such as FOXO, Hif-2a, and NF-kB. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lysine 382.			
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3.			
	All of the second	torago		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	torage		

For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com in USA), or 1(312) 455-8498 (outside USA) W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

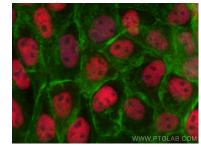
Selected Validation Data



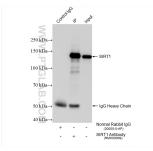
Various lysates were subjected to SDS PAGE followed by western blot with RMX00009 (SIRT1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



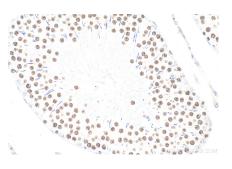
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using RMX00009 (SIRT 1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



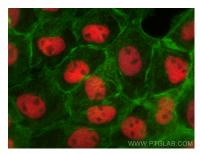
Immunofluorescent analysis of (4% PFA) fixed A431 cells using SIRT1 antibody (RMX00009) at dilution of 1:1000 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488phalloidin (green).



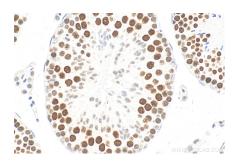
IP result of anti-SIRT1 (IP:RMX00009, 4ug; Detection:RMX00009 1:4000) with HeLa cells lysate 1200 ug.



Immunohistochemical analysis of paraffinembedded rat testis tissue slide using RMX00009 (SIRT 1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A431 cells using SIRT 1 antibody (RMX00009) at dilution of 1:500 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488phalloidin (green).



Immunohistochemical analysis of paraffinembedded mouse testis tissue slide using RMX00009 (SIRT1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).