For Research Use Only

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

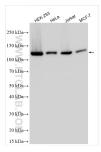


Basic Information	Catalog Number: RMX00009	GenBank Accession Numb BC012499	per:	Purification Method: N/A	
	Concentration: 800 µg/ml Source: Rabbit	GenelD (NCBI): 23411		Recommended Dilutions: WB 1:2000-1:16000	
		UNIPROT ID: Q96EB6		IHC 1:250-1:1000 IF/ICC 1:500-1:2000	
	Isotype: IgG	Full Name: sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)		L	
		Calculated MW: 747 aa, 82 kDa			
		Observed MW: 110-130 kDa			
Applications			ositive Contr	ols:	
			WB : HEK-293 cells, HeLa cells, Jurkat cells, MCF-7 cells		
	human mouse rat		I <mark>C : human co</mark> t testis tissu	human colon cancer tissue, mouse testis tissue, stis tissue	
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0		/ICC : A431	cells,	
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 y Storage Buffer: PBS with 0.02% sodium azide Aliquoting is unnecessary for -	and 50% glycerol pH 7.3.			

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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

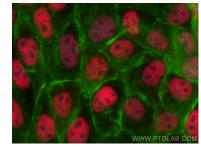
Selected Validation Data



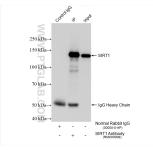
Various lysates were subjected to SDS PAGE followed by western blot with RMX00009 (SIRT1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



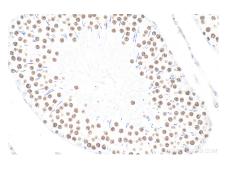
Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using RMX00009 (SIRT 1 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



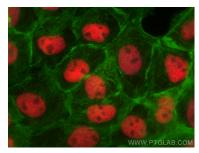
Immunofluorescent analysis of (4% PFA) fixed A431 cells using SIRT1 antibody (RMX00009) at dilution of 1:1000 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488phalloidin (green).



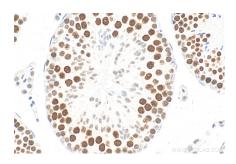
IP result of anti-SIRT1 (IP:RMX00009, 4ug; Detection:RMX00009 1:4000) with HeLa cells lysate 1200 ug.



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).