

For Research Use Only

SIRT6 Recombinant monoclonal antibody

Catalog Number: 87677-3-RR



Basic Information

Catalog Number: 87677-3-RR	GenBank Accession Number: BC028220	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 51548	CloneNo.: 253025G5
Source: Rabbit	UNIPROT ID: Q8N6T7	Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC: 1:500-1:2000
Isotype: IgG	Full Name: sirtuin (silent mating type information regulation 2 homolog) 6 (S. cerevisiae)	
Immunogen Catalog Number: AG4469	Calculated MW: 39 kDa Observed MW: 37-45 kDa	

Applications

Tested Applications: WB, IP, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HCT 116 cells, BxPC-3 cells, HepG2 cells, RAW 264.7 cells, HSC-T6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IP : HeLa cells, IHC : human colon tissue,

Background Information

SIRT6, also named as SIR2L6, belongs to the sirtuin family. It is known to deacetylate H3K9, H3K56 and CtIP in vivo. SIRT6 regulates the expression of a large number of stress-responsive and metabolism related genes, promotes genomic stability and stimulates base excision and double strand break DNA repair(PMID: 20729089). By maintaining both the integrity and the expression of the mammalian genome, SIRT6 thus serves several roles that parallel Sir2 function(PMID: 20729089). In addition, Sirt6-deficient animals develop normally for several weeks after birth, but succumb to an acute multi-organ degenerative syndrome that is uniformly lethal by one month of age(PMID: 19135889).

Storage

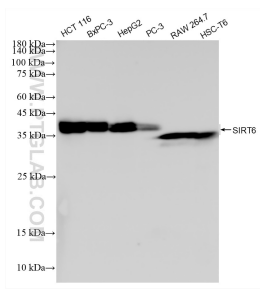
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

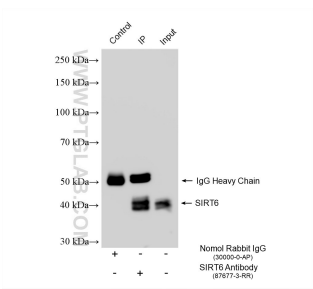
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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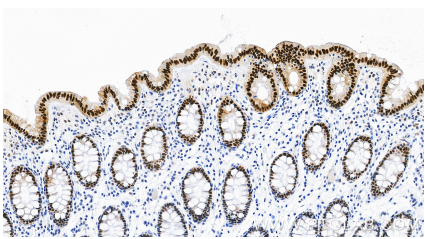
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87677-3-RR (SIRT6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-SIRT6 (IP:87677-3-RR, 4ug; Detection:87677-3-RR 1:2000) with HeLa cells lysate 920 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 87677-3-RR (SIRT6 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).