

For Research Use Only

SIRT6 Polyclonal antibody

Catalog Number: 13572-1-AP

Featured Product

54 Publications



Basic Information

Catalog Number:

13572-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4469

GenBank Accession Number:

BC028220

GeneID (NCBI):

51548

UNIPROT ID:

Q8N6T7

Full Name:

sirtuin (silent mating type information regulation 2 homolog) 6 (S. cerevisiae)

Calculated MW:

39 kDa

Observed MW:

39-45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : BxPC-3 cells, HeLa cells, HepG2 cells, PC-3 cells

IP : BxPC-3 cells,

IHC : mouse testis 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). This antibody is a rabbit polyclonal antibody raised against full length human SIRT6 antigen.

Notable Publications

Author	Pubmed ID	Journal	Application
Yong Zhang	32970960	Can J Physiol Pharmacol	WB
Xiaodan Sun	31572453	Front Genet	IHC
Kalaiselvi Sivalingam	34716387	Sci Rep	WB

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.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

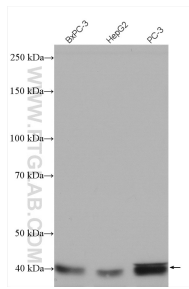
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

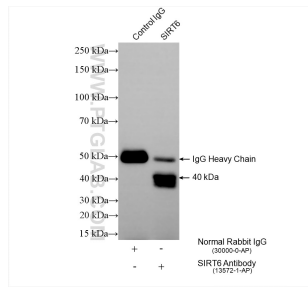
E: proteintech@ptglab.com
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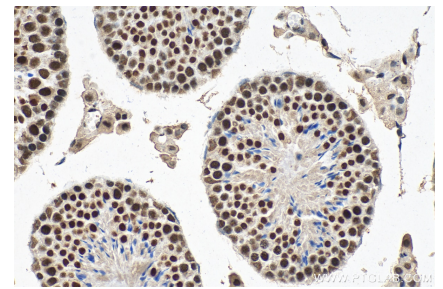
Selected Validation Data



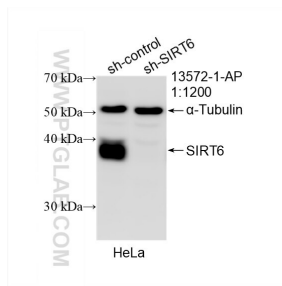
Various lysates were subjected to SDS PAGE followed by western blot with 13572-1-AP (SIRT6 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-SIRT6 (IP:13572-1-AP, 4ug; Detection:13572-1-AP 1:2000) with BxPC-3 cells lysate 2080 ug.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 13572-1-AP (SIRT6 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of SIRT6 antibody (13572-1-AP; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-SIRT6 transfected HeLa cells.