

For Research Use Only

SIRT7 Polyclonal antibody

Catalog Number: 12994-1-AP

Featured Product

26 Publications



Basic Information

Catalog Number:

12994-1-AP

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3656

GenBank Accession Number:

BC017305

GeneID (NCBI):

51547

UNIPROT ID:

Q9NRC8

Full Name:

sirtuin (silent mating type
information regulation 2 homolog) 7
(S. cerevisiae)

Calculated MW:

400 aa, 45 kDa

Observed MW:

45 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

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

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : PC-3 cells, mouse kidney tissue, mouse liver
tissue, rat liver tissue

IP : PC-3 cells,

IHC : mouse liver tissue,

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

Background Information

SIRT7 (NAD-dependent deacetylase sirtuin-7), also known as SIR2L7, is a member of the class IV sirtuin family and is localized to the nucleolus. Expressed throughout the body, SIRT7 associates with rDNA genes where it interacts with histones and acts as a positive regulator of RNA polymerase I (Pol I). SIRT7 is a probable NAD-dependent deacetylase whose expression is upregulated in thyroid carcinoma cells. Overexpression of SIRT7 increases Pol I-mediated transcription, thereby speeding cell growth and contributing to the development of cancer.

Notable Publications

Author	Pubmed ID	Journal	Application
Xiaodan Sun	31572453	Front Genet	IHC
Min Liu	28871079	Nat Commun	WB
Kalaiselvi Sivalingam	34716387	Sci Rep	WB,IF

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

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

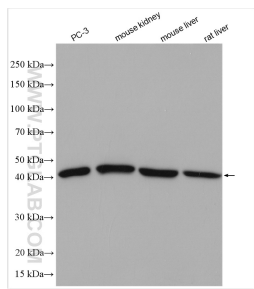
T: 4006900926

E: Proteintech-CN@ptglab.com

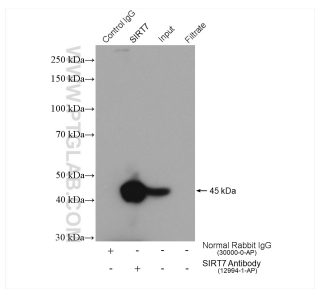
W: ptgcn.com

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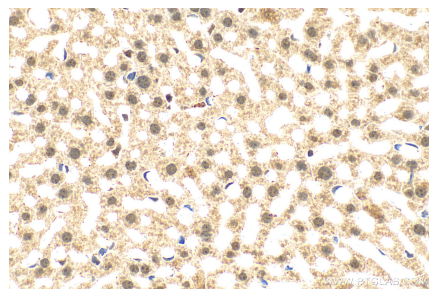
Selected Validation Data



PC-3 cells were subjected to SDS PAGE followed by western blot with 12994-1-AP (SIRT7 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SIRT7 (IP:12994-1-AP, 4ug; Detection:12994-1-AP 1:1000) with PC-3 cells lysate 960 ug.



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 12994-1-AP (SIRT7 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).