

For Research Use Only

# SIRT7 Polyclonal antibody

Catalog Number: 12994-1-AP

Featured Product

26 Publications



## Basic Information

### Catalog Number:

12994-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### 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

\*\*\* 20ul sizes contain 0.1% BSA

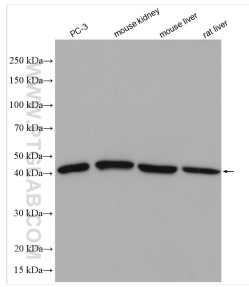
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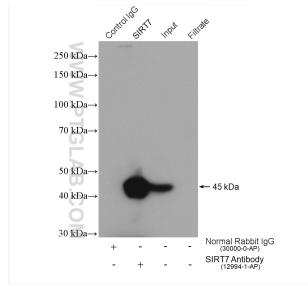
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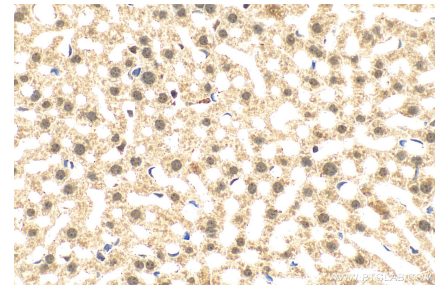
## Selected Validation Data



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).