

For Research Use Only

# SIRT7 Recombinant antibody

Catalog Number: 84805-4-RR



## Basic Information

<b>Catalog Number:</b> 84805-4-RR	<b>GenBank Accession Number:</b> NM_016538	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51547	<b>CloneNo.:</b> 242167C9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NRC8	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG31794	<b>Calculated MW:</b> 45KD <b>Observed MW:</b> 45 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IP, ELISA	<b>Positive Controls:</b> WB : HeLa cells, MCF-7 cells, HCT 116 cells, Caco-2 cells, HEK-293T cells, rat liver tissue IP : HEK-293T cells, IHC : rat liver tissue,
<b>Species Specificity:</b> human, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Storage

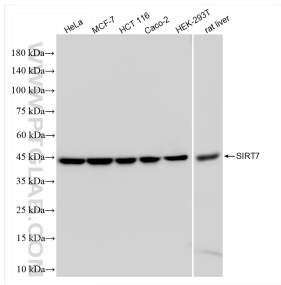
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

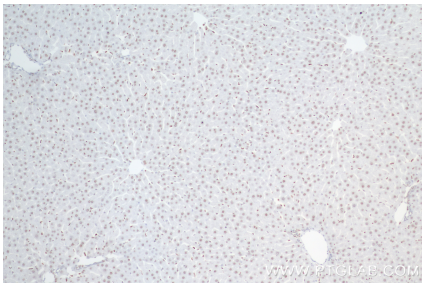
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

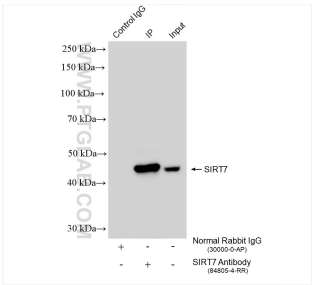
Selected Validation Data



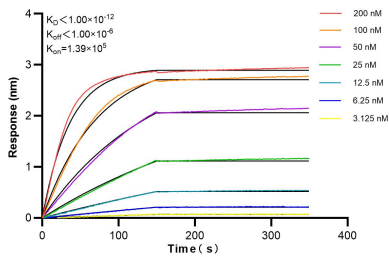
Various lysates were subjected to SDS PAGE followed by western blot with 84805-4-RR (SIRT7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat liver tissue slide using 84805-4-RR (SIRT7 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-SIRT7 (IP:84805-4-RR, 4ug; Detection:84805-4-RR 1:2000) with HEK-293T cells lysate 2200 ug.



Biolayer interferometry (BLI) kinetic assays of 84805-4-RR against Human SIRT7 were performed. The affinity constant is below 1 pM.