

For Research Use Only

# SIRT7 Polyclonal antibody

Catalog Number: 29729-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 29729-1-AP	<b>GenBank Accession Number:</b> NM_016538	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51547	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> sirtuin (silent mating type information regulation 2 homolog) 7 (S. cerevisiae)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 45KD	
<b>Immunogen Catalog Number:</b> AG31794	<b>Observed MW:</b> 45 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b> WB : Caco-2 cells, HeLa cells, HCT 116 cells, MCF-7 cells, rat liver cells IF : HEK-293 cells,
<b>Cited Applications:</b> IHC, WB	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, rat	

## 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
Yan Wang	35941302	Int Urol Nephrol	WB,IHC

## Storage

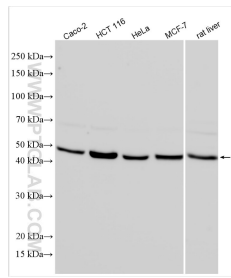
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

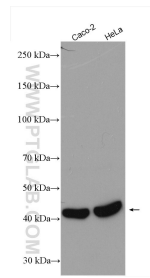
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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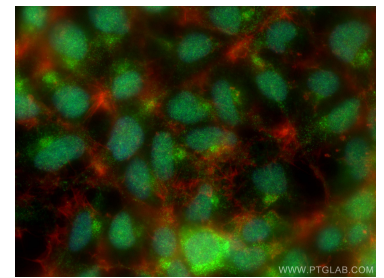
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 29729-1-AP (SIRT7 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 29729-1-AP (SIRT7 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HEK-293 cells using SIRT7 antibody (29729-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).