For Research Use Only

SIRT7 Recombinant antibody

Catalog Number:84805-4-RR

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Uni-rAb
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Basic Information

Catalog Number:
84805-4-RR

Size:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG31794

GenBank Accession Number:
NM_016538

GeneID (NCBI):
51547

UNIPROT ID:
Q9NRC8

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

Calculated MW:
45KD

Observed MW:
45 kDa

Purification Method:
Protein A purfication

CloneNo.:
242167C9

Recommended Dilutions:
WB 1:1000-1:6000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
WB, IP, ELISA

Species Specificity:
human, rat

Positive Controls:

WB : HeLa cells, MCF-7 cells, HCT 116 cells, Caco-2 cells, HEK-293T cells, rat liver tissue

IP : HEK-293T cells,

Background Information

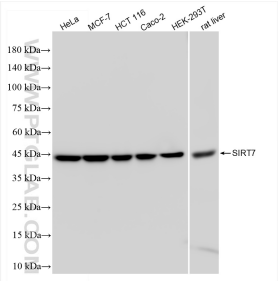
SIRT7 (NAD-dependent deacetylase sirtuin-7), also known as SIR2L7, is a member of the class IV sirtuin family and is localized to the nucleolus. Expressed throughout the body, SIRT7 associates with rDNA genes where it interacts with histones and acts as a positive regulator of RNA polymerase I (Pol I). 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

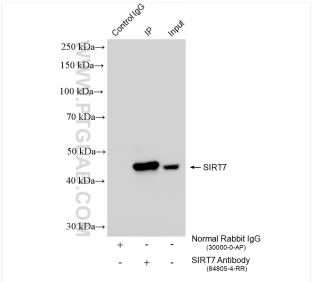
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

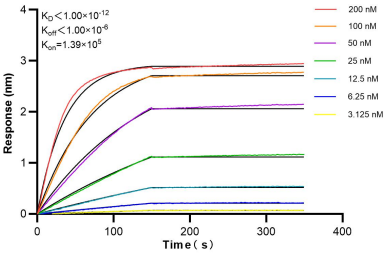
Selected Validation Data



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.



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.