

For Research Use Only

SIRT7 Polyclonal antibody

Catalog Number: 29729-1-AP

1 Publications



Basic Information

Catalog Number:

29729-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop;

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

Human, rat

Cited Species:

human, rat

Positive Controls:

WB : Caco-2 cells, HeLa cells, HCT 116 cells, MCF-7 cells, rat liver cells

IF/ICC : HEK-293 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.

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

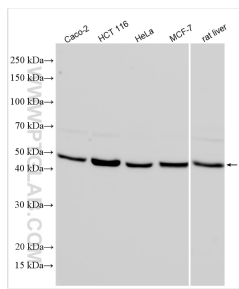
For technical support and original validation data for this product please contact:

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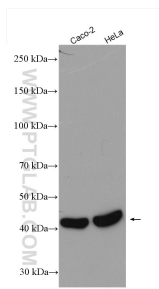
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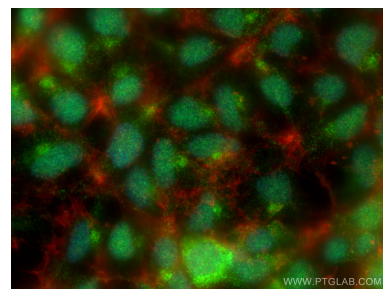
Selected Validation Data



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).