

Anti-SIRT6 Antibody [PSH10-99]

HA723266



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat, Monkey
Applications:	WB, IHC-P
Molecular Wt:	Predicted band size: 39 kDa
Clone number:	PSH10-99

Description: Sirtuin 6 (SIRT6 or Sirt6) is a stress responsive protein deacetylase and mono-ADP ribosyltransferase enzyme encoded by the SIRT6 gene. In laboratory research, SIRT6 appears to function in multiple molecular pathways related to aging, including DNA repair, telomere maintenance, glycolysis and inflammation. SIRT6 is member of the mammalian sirtuin family of proteins, which are homologs to the yeast Sir2 protein.

Immunogen: Recombinant protein within human SIRT6 aa 1-355.

Positive control: HeLa cell lysate, HCT 116 cell lysate, NIH/3T3 cell lysate, MEF cell lysate, C6 cell lysate, PC-12 cell lysate, COS-1 cell lysate, mouse testis tissue.

Subcellular location: Nucleus, Chromosome, telomere, Endoplasmic reticulum.

Database links: SwissProt: Q8N6T7 Human | P59941 Mouse
Entrez Gene: 299638 Rat

Recommended Dilutions:

WB	1:2,000
IHC-P	1:1,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

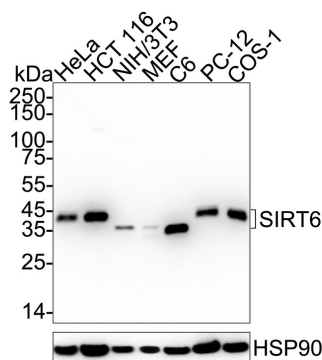
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of SIRT6 on different lysates with Rabbit anti-SIRT6 antibody (HA723266) at 1/2,000 dilution.



Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: HCT 116 cell lysate (20 µg/Lane)
 Lane 3: NIH/3T3 cell lysate (20 µg/Lane)
 Lane 4: MEF cell lysate (20 µg/Lane)
 Lane 5: C6 cell lysate (20 µg/Lane)
 Lane 6: PC-12 cell lysate (20 µg/Lane)
 Lane 7: COS-1 cell lysate (20 µg/Lane)

Predicted band size: 39 kDa
 Observed band size: 36/42 kDa

Exposure time: 46 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723266) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

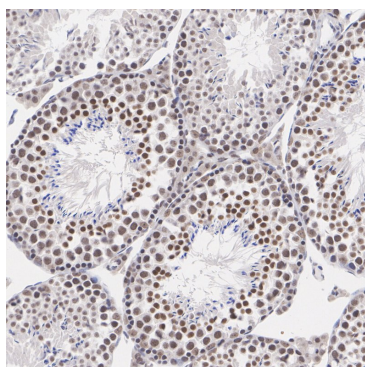


Fig2: Immunohistochemical analysis of paraffin-embedded mouse testis tissue with Rabbit anti-SIRT6 antibody (HA723266) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA723266) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

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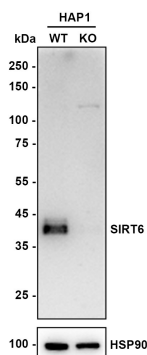
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Fig3: Western blot analysis of SIRT6 on different lysates with Rabbit anti-SIRT6 antibody (HA723266) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate

Lane 2: HAP1-SIRT6 KO cell lysate



Lysates/proteins at 10 µg/Lane.

Predicted band size: 39 kDa

Observed band size: 39 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA723266) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Guo Z et al. SIRT6 in Aging, Metabolism, Inflammation and Cardiovascular Diseases. Aging Dis. 2022 Dec
2. Li B et al. SIRT6-regulated macrophage efferocytosis epigenetically controls inflammation resolution of diabetic periodontitis. Theranostics. 2023 Jan

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