

Anti-SIRT2 Antibody [SN70-04]

ET1611-72



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Cynomolgus monkey
Applications:	WB, IP, IHC-P
Molecular Wt:	Predicted band size: 43 kDa
Clone number:	SN70-04

Description: The silent information regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. In *S. cerevisiae*, Sir2p deacetylates histones in a NAD-dependent manner, which regulates silencing at the telomeric, rDNA and silent mating-type loci. Sir2p is the founding member of a large family, designated sirtuins, which contain a conserved catalytic domain. The human homologs, which include SIRT1-7, are divided into four main branches: SIRT1-3 are class I, SIRT4 is class II, SIRT5 is class III and SIRT6-7 are class IV. SIRT proteins may function via mono-ADP-ribosylation of proteins. SIRT2 contains a 323 amino acid catalytic core domain with a NAD-binding domain and a large groove which is the likely site of catalysis.

Immunogen: Synthetic peptide within Human SIRT2 aa 335-389 / 389.

Positive control: Human brain tissue lysates, MCF7 cell lysate, HeLa cell lysate, HEK-293 cell lysate, LNCaP cell lysate, Jurkat cell lysate, human brain tissue, human heart tissue.

Subcellular location: Nucleus, Cytoplasm, Midbody, Chromosome, Cell projection, Myelin membrane.

Database links: SwissProt: Q8IXJ6 Human

Recommended Dilutions:

WB	1:1,000-1:2,000
IP	Use at an assay dependent concentration.
IHC-P	1:200-1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% 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

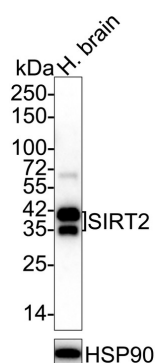
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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of SIRT2 on Human brain tissue lysates with Rabbit anti-SIRT2 antibody (ET1611-72) at 1/1,000 dilution.



Lysates/proteins at 20 µg/Lane.

Predicted band size: 43 kDa

Observed band size: 40/35 kDa

Exposure time: 1 minute; ECL: K1802;

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 (ET1611-72) at 1/1,000 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: Western blot analysis of SIRT2 on different lysates with Rabbit anti-SIRT2 antibody (ET1611-72) at 1/1,000 dilution.

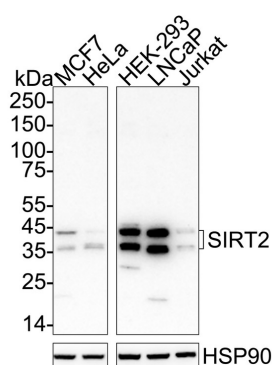
Lane 1: MCF7 cell lysate

Lane 2: HeLa cell lysate

Lane 3: HEK-293 cell lysate

Lane 4: LNCaP cell lysate

Lane 5: Jurkat cell lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 43 kDa

Observed band size: 40/35 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 (ET1611-72) at 1/1,000 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.

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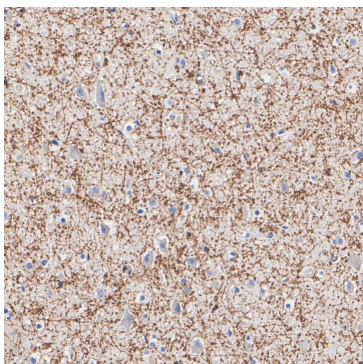


Fig3: Immunohistochemical analysis of paraffin-embedded human brain tissue with Rabbit anti-SIRT2 antibody (ET1611-72) at 1/1,000 dilution.

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 (ET1611-72) 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.

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

Background References

1. Stettner M et al. Promoting myelination in an in vitro mouse model of the peripheral nerve system: the effect of wine ingredients. PLoS One 8:e66079 (2013).
2. Fröhbeis C et al. Neurotransmitter-triggered transfer of exosomes mediates oligodendrocyte-neuron communication. PLoS Biol 11:e1001604 (2013).

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