SIRT1 Rabbit mAb

Catalog No: #48689

Description

Package Size: #48689-1 50ul #48689-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

SIRT1 Rabbit mAb
Recombinant Rabbit
Monoclonal antibody
SZ04-01
ProA affinity purified
WB, ICC/IF, IHC, IP
Hu
recombinant protein
75SirT1 antibody hSIR2 antibody hSIRT1 antibody HST2, S. cerevisiae, homolog of antibody NAD dependent
deacetylase sirtuin 1 antibody NAD dependent protein deacetylase sirtuin 1 antibody OTTHUMP00000198111
antibody OTTHUMP00000198112 antibody Regulatory protein SIR2 homolog 1 antibody SIR1_HUMAN
antibody SIR2 antibody SIR2 like 1 antibody SIR2 like protein 1 antibody SIR2, S.cerevisiae, homolog-like 1
antibody SIR2-like protein 1 antibody SIR2ALPHA antibody SIR2L1 antibody Sirt1 antibody SirtT1 75 kDa
fragment antibody Sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae) antibody
Sirtuin 1 antibody Sirtuin type 1 antibody

1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

Application Details

Accession No.

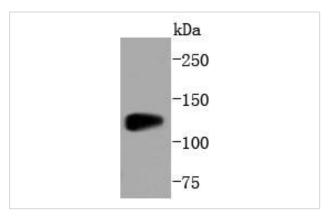
Calculated MW

Formulation

Storage

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

Images

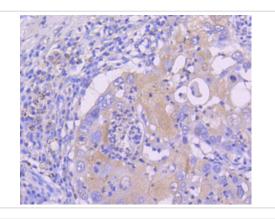


Western blot analysis of SIRT1 on Jurkat cells lysates using anti-SIRT1 antibody at 1/1,000 dilution.

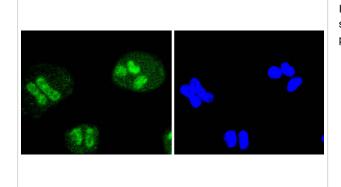
Swiss-Prot#:Q96EB6

110 kDa

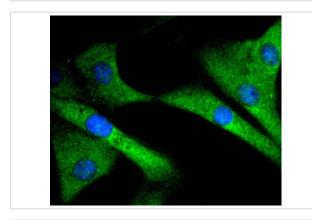
Store at -20°C



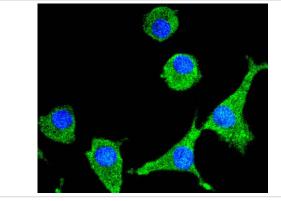
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-SIRT1 antibody. Counter stained with hematoxylin.



ICC staining SIRT1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SIRT1 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining SIRT1 in SH-SY-5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

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 an 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. SIRT1 has the closest homology to the yeast Sir2p and is widely expressed in fetal and adult tissues. SIRT1 is highly expressed in heart, brain and skeletal muscle, with low expression in lung and placenta. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lys 382.

References

- 1. Kang K et al. Carnosic acid slows photoreceptor degeneration in the Pde6b(rd10) mouse model of retinitis pigmentosa. Sci Rep 6:22632 (2016).
- 2. Zheng YC et al. 1,2,3-Triazole-Dithiocarbamate Hybrids, a Group of Novel Cell Active SIRT1 Inhibitors. Cell Physiol Biochem 38:185-93 (2016).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.