

SIRT1 (Phospho Ser27) Rabbit pAb

CatalogNo: YP1495

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA, IHC

MW

- 85-110kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human SIRT1 (Ser27)

Specificity This antibody detects endogenous levels of Human SIRT1 (phospho-Ser27)

Target Information

Gene name SIRT1 SIR2L1

Protein Name

SirT1 (Ser27)

Organism	Gene ID	UniProt ID
Human	23411 ;	Q96EB6 ;
Mouse	93759 ;	Q923E4 ;

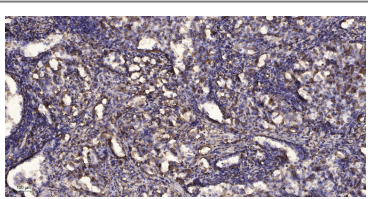
Cellular Localization

Nucleus , PML body . Cytoplasm . Nucleus . Recruited to the nuclear bodies via its interaction with PML (PubMed:12006491) . Colocalized with APEX1 in the nucleus (PubMed:19934257) . May be found in nucleolus , nuclear euchromatin , heterochromatin and inner membrane (PubMed:15469825) . Shuttles between nucleus and cytoplasm (By similarity) . Colocalizes in the nucleus with XBP1 isoform 2 (PubMed:20955178) . .; [SirtT1 75 kDa fragment]: Cytoplasm . Mitochondrion .

Tissue specificity Widely expressed.

Function

Catalytic activity:NAD (+) + an acetylprotein = nicotinamide + O-acetyl-ADP-ribose + a protein. ,cofactor:Binds 1 zinc ion per subunit. ,enzyme regulation:Inhibited by nicotinamide. Activated by resveratrol (3 ,5 ,4'-trihydroxy-trans-stilbene) , butein (3 ,4 ,2' ,4'-tetrahydroxychalcone) , piceatannol (3 ,5 ,3' ,4'-tetrahydroxy-trans-stilbene) , Isoliquiritigenin (4 ,2' ,4'-trihydroxychalcone) , fisetin (3 ,7 ,3' ,4'-tetrahydroxyflavone) and quercetin (3 ,5 ,7 ,3' ,4'-pentahydroxyflavone) . RPS19BP1/AROS acts as a positive regulator of deacetylation activity. ,Function:NAD-dependent deacetylase , which regulates processes such as apoptosis and muscle differentiation by deacetylating key proteins. Deacetylates 'Lys-382' of p53/TP53 and impairs its ability to induce proapoptotic program and modulate cell senescence. Deacetylates TAF1B and thereby represses rDNA transcription by the RNA polymerase I. Involved in HES1- and HEY2-mediated transcriptional repression. Inhibits skeletal muscle differentiation by deacetylating PCAF and MYOD1. May serve as a sensor of the cytosolic ratio of NAD (+) /NADH , which is essential in skeletal muscle cell differentiation. Despite some ability to deacetylate histones in vitro , such activity is either weak or inexistent in vivo. In case of HIV-1 infection , interacts with and deacetylates the viral Tat protein. ,miscellaneous:Red wine , which contains resveratrol , may participate in activation of sirtuin proteins , and may therefore participate in an extended lifespan as it has been observed in yeast. ,similarity:Belongs to the sirtuin family. ,similarity:Contains 1 deacetylase sirtuin-type domain. ,subcellular location:Recruited to the nuclear bodies via its interaction with PML. ,subunit:Interacts with TAF1B. Found in a complex with PCAF and MYOD1 (By similarity) . Interacts with MLLT7/FOXO4 , HES1 , HEY2 , p53/TP53 and PML. Interacts with RPS19BP1/AROS. ,tissue specificity:Widely expressed. ,

Validation Data

Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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Ser27) Rabbit pAb**

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