

SIRT1 (Phospho Ser549) rabbit pAb

YP1624 Catalog No:

Reactivity: Human; Mouse

WB;ELISA;IHC **Applications:**

Target: SIRT1

Fields: >>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>FoxO

> signaling pathway;>>AMPK signaling pathway;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Cellular

senescence;>>Glucagon signaling pathway;>>Alcoholic liver disease;>>Amphetamine addiction;>>MicroRNAs in cancer

Gene Name: SIRT1 SIR2L1

Protein Name: SIRT1 (phospho-Ser549)

Q96EB6

Q923E4

Human Gene Id: 23411

Human Swiss Prot

No:

Mouse Gene Id: 93759

Mouse Swiss Prot

No:

Synthesized peptide derived from human SIRT1 (phospho-Ser549) Immunogen:

Specificity: This antibody detects endogenous levels of Human, Mouse SIRT1 (phospho-

Ser549)

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

Polyclonal, Rabbit, IgG Source:

WB 1:500-2000;IHC 1:50-300; ELISA 2000-20000 **Dilution:**

Purification: The antibody was affinity-purified from rabbit serum by affinity-chromatography

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using specific immunogen. **Concentration:** 1 mg/ml -15°C to -25°C/1 year(Do not lower than -25°C) **Storage Stability:** Observed Band: 78kD This gene encodes a member of the sirtuin family of proteins, homologs to the **Background:** yeast Sir2 protein. Members of the sirtuin family are characterized by a sirtuin core domain and grouped into four classes. The functions of human sirtuins have not yet been determined; however, yeast sirtuin proteins are known to regulate epigenetic gene silencing and suppress recombination of rDNA. Studies suggest

Function:

catalytic activity:NAD(+) + an acetylprotein = nicotinamide + O-acetyl-ADPribose + a protein.,cofactor:Binds 1 zinc ion per subunit.,enzyme

regulation:Inhibited by nicotinamide. Activated by resveratrol (3,5,4'-trihydroxy-

that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Alternative splicing results in multiple transcript

trans-stilbene), butein (3,4,2',4'-tetrahydroxychalcone), piceatannol

(3,5,3',4'-tetrahydroxy-trans-stilbene), Isoliquiritigenin

variants. [provided by RefSeq, Dec 2008],

(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

Subcellular Location:

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.

Expression: Widely expressed.

orthogonal Tag:

Sort: 16346

No4:

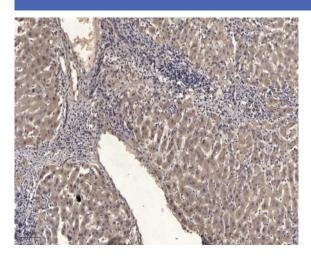
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Host: Rabbit

Modifications: Phospho

Products Images



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