

SIRT3 Polyclonal Antibody

Catalog No :	YT4304
Reactivity :	Human;Mouse;
Applications :	WB;ELISA
Target :	SIRT3
Fields :	>>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>Central carbon metabolism in cancer
Gene Name :	SIRT3
Protein Name :	NAD-dependent protein deacetylase sirtuin-3 mitochondrial
Human Gene Id :	23410
Human Swiss Prot No :	Q9NTG7
Mouse Swiss Prot No :	Q8R104
Immunogen :	The antiserum was produced against synthesized peptide derived from human SIRT3. AA range:350-399
Specificity :	SIRT3 Polyclonal Antibody detects endogenous levels of SIRT3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 45kD

Cell Pathway : Protein_Acetylation

Background : This gene encodes a member of the sirtuin family of proteins, homologs to the 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 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. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008],

Function : catalytic activity:NAD(+) + an acetylprotein = nicotinamide + O-acetyl-ADP-ribose + a protein.,cofactor: Binds 1 zinc ion per subunit.,function:NAD-dependent deacetylase. Despite some ability to deacetylate histones in vitro, it is unlikely in vivo.,PTM:Processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product. Such processing is probably essential for its enzymatic activity.,similarity:Belongs to the sirtuin family.,similarity:Contains 1 deacetylase sirtuin-type domain.,tissue specificity:Widely expressed.,

Subcellular Location : Mitochondrion matrix .

Expression : Widely expressed.

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