

## SIRT3 Polyclonal Antibody

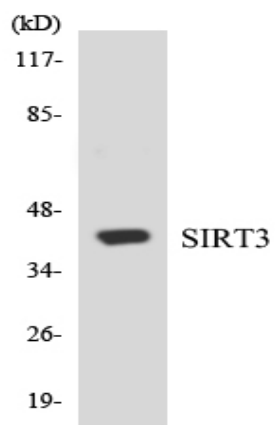
<b>Catalog No :</b>	YT4304
<b>Reactivity :</b>	Human;Mouse;
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	SIRT3
<b>Fields :</b>	>>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>Central carbon metabolism in cancer
<b>Gene Name :</b>	SIRT3
<b>Protein Name :</b>	NAD-dependent protein deacetylase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

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<b>Observed Band :</b>	45kD
<b>Cell Pathway :</b>	Protein_Acetylation
<b>Background :</b>	<p>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],</p>
<b>Function :</b>	<p>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.,</p>
<b>Subcellular Location :</b>	Mitochondrion matrix .
<b>Expression :</b>	Widely expressed.
<b>Tag :</b>	orthogonal
<b>Sort :</b>	1
<b>No4 :</b>	1
<b>Host :</b>	Rabbit
<b>Modifications :</b>	Unmodified

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## Products Images



Western blot analysis of the lysates from HepG2 cells using SIRT3 antibody.