



# SIRT3 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-04214
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	SIRT3
<b>Protein Name</b>	NAD-dependent protein deacetylase sirtuin-3 mitochondrial
<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>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	SIRT3; SIR2L3; NAD-dependent protein deacetylase sirtuin-3; mitochondrial; hSIRT3; Regulatory protein SIR2 homolog 3; SIR2-like protein 3
<b>Observed Band</b>	45kD
<b>Cell Pathway</b>	Mitochondrion matrix .
<b>Tissue Specificity</b>	Widely expressed.
<b>Function</b>	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.,
<b>Background</b>	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],

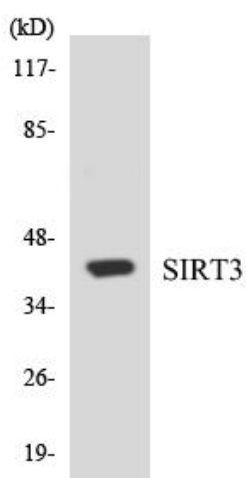
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**



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