

**Product Name: SIRT3 Rabbit Polyclonal Antibody****Catalog #: APRab17918**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Mouse
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,ELISA 1:5000-1:10000
<b>Molecular Weight</b>	45kDa

**Antigen Information**

<b>Gene Name</b>	SIRT3
<b>Alternative Names</b>	SIRT3; SIR2L3; NAD-dependent protein deacetylase sirtuin-3; mitochondrial; hSIRT3; Regulatory protein SIR2 homolog 3; SIR2-like protein 3
<b>Gene ID</b>	23410.0
<b>SwissProt ID</b>	Q9NTG7
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human SIRT3. AA range:350-399

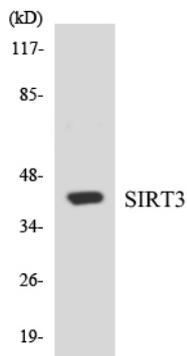
**Background**

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], 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.,

## Research Area

Protein\_Acetylation

## Image Data



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