

## SIRT3 Antibody

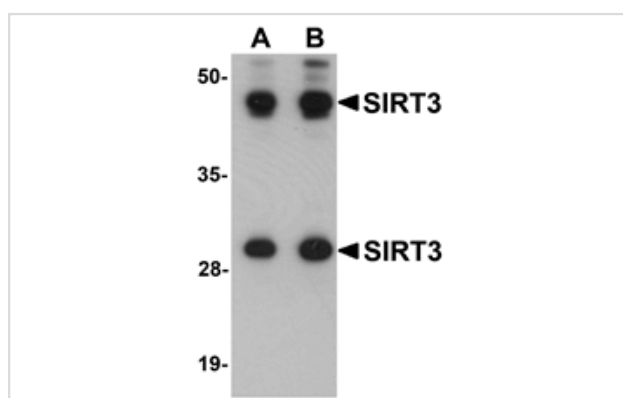
Catalog No: #25123

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## Description

Product Name	SIRT3 Antibody
Host Species	Chicken
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 17 amino acid peptide near the center of human SIRT3.
Target Name	SIRT3
Other Names	Sirtuin, NAD-dependent deacetylase sirtuin-3, SIR2L3, hSIRT3
Accession No.	Swiss-Prot:Q9NTG7 Gene ID:23410
Uniprot	Q9NTG7
GeneID	23410;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

## Images



Western blot analysis of SIRT3 in mouse heart tissue lysate with SIRT3 antibody at (A) 1 and (B) 2 ug/mL.

## Background

The Silent Information Regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and have important functions in the regulation of metabolism, growth and differentiation, inflammation, cellular survival, as well as in senescence, lifespan extension and several age-related diseases. Sirtuins are NAD<sup>+</sup>-dependent histone/protein deacetylases (HDAC) and SIRT3 is the only sirtuin whose increased expression has been shown to correlate with an extended life span in humans. It is localized in the mitochondrial matrix, where it regulates the acetylation levels of metabolic enzymes, including acetyl coenzyme A synthetase 2. SIRT3 is stress-responsive and its increased expression protects myocytes from genotoxic and oxidative stress-mediated cell death.

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Note: This product is for in vitro research use only