

SIRT3 Polyclonal Antibody

Catalog number: 10099-1-AP

Size: 25 µg/150 µl

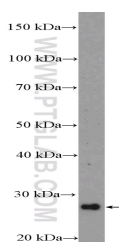
Source: Rabbit

Isotype: IgG

Synonyms:

SIRT3; hSIRT3, SIR2 like protein

3, SIR2L3, SIRT3



mouse liver tissue were subjected to SDS PAGE followed by western blot with 10099-1-AP (SIRT3 Antibody) at dilution of 1:300

Background

Sirtuins are NAD⁺-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. full-length hSIRT3 (44 kDa) is an inert protein and that it is activated inside the mitochondria following deletion of 142 amino acids of the N-terminal segment. This processed form of SIRT3 is approximately 28 kDa and possesses deacetylase activity. The full SIRT3 is a 44 kDa protein and is processed by mitochondrial processing peptidase (MPP) to give a 28 kDa product.

Applications

Tested applications:	ELISA, WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated SIRT3 MW:	44 kDa
Observed SIRT3 MW:	28 kDa
Positive WB detected in	Mouse liver tissue, human spleen tissue, mouse kidney tissue, mouse skeletal muscle tissue
Recommended dilution:	WB: 1:200-1:1000

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag0148
GenBank accession number:	BC001042
Gene ID (NCBI):	23410
Full name:	Sirtuin (silent mating type information regulation 2 homolog) 3 (S. cerevisiae)

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.