



SIRT3 Monoclonal Antibody

Catalog No	YP-mAb-04214
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SIRT3
Immunogen	The antiserum was produced against synthesized peptide derived from human SIRT3. AA range:350-399
Specificity	SIRT3 Monoclonal Antibody detects endogenous levels of SIRT3 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:2.3.1.286;hSIRT3;NAD-dependent protein deacetylase sirtuin-3; mitochondrial;Regulator;SIRT3;NAD-dependent protein deacetylase sirtuin-3 mitochondrial;SIR2L3;Regulatory protein SIR2 homolog 3;SIR2-like protein 3
Calculated Molecular Weight	44kD
Observed Band	28kD
Cell Pathway	Mitochondrion matrix .
Tissue Specificity	Widely expressed.
Function	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.,



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],

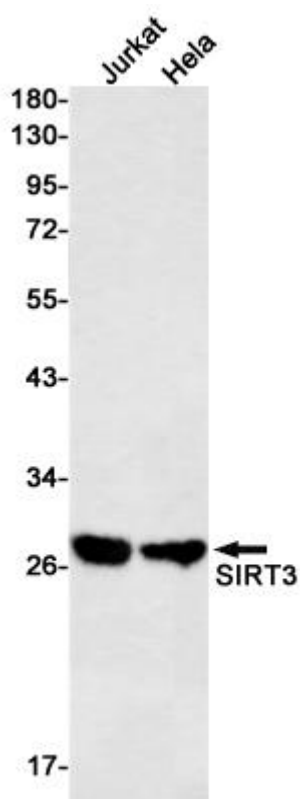
matters needing attention

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.

