



SIRT3 Rabbit mAb

Catalog No	YP-rAb-17953
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	SIRT3
Protein Name	NAD-dependent protein deacetylase sirtuin-3 mitochondrial
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:1000-1:5000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	SIRT3 ; SIR2L3 ; NAD-dependent protein deacetylase sirtuin-3 ; mitochondrial ; hSIRT3 ; Regulatory protein SIR2 homolog 3 ; SIR2-like protein 3
Observed Band	28kD
Calculated Molecular Weight	44kD
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

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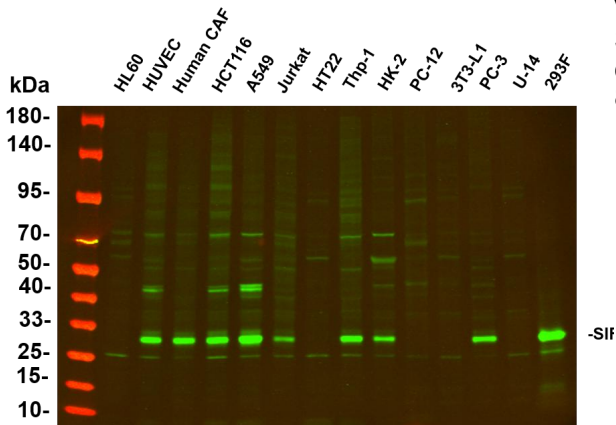
that the human sirtuins may function as intracellular regulatory proteins with mono-ADP-ribosyltransferase activity. The protein encoded by this gene is included in class I of the sirtuin family. Two alternatively spliced transcript variants that encode different proteins have been described for this gene. [provided by RefSeq, Jul 2008],

matters needing attention

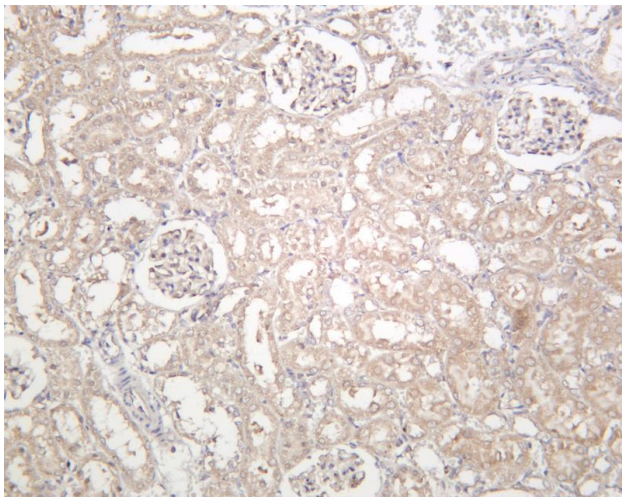
Avoid repeated freezing and thawing!

Usage suggestions

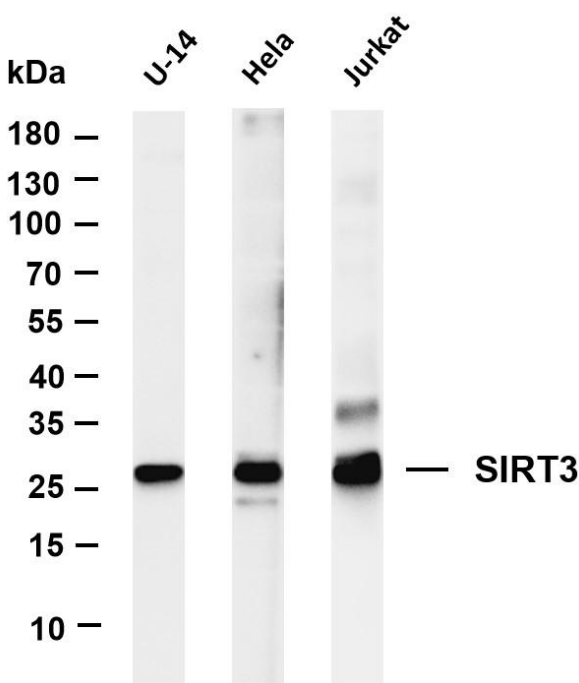
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4°C, over night with a 1:2500 dilution. The Dylight 800-conjugated Goat anti-Rabbit antibody



Rat liver was stained with anti-SIRT3 rabbit antibody



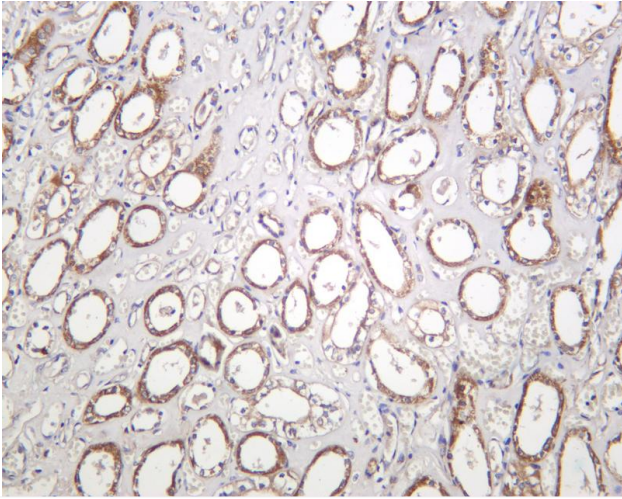
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SIRT3 antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: U-14 Lane 2: HeLa Lane 3: Jurkat Predicted band size: 44kDa Observed band size: 28kDa



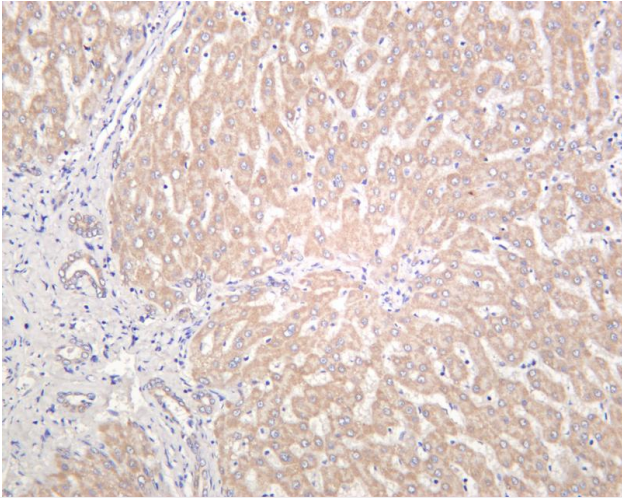
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Human kidney was stained with anti-SIRT3 rabbit antibody



Human liver was stained with anti-SIRT3 rabbit antibody

