

SIRT3 Antibody

Catalog No: #48243



Package Size: #48243-1 50ul #48243-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

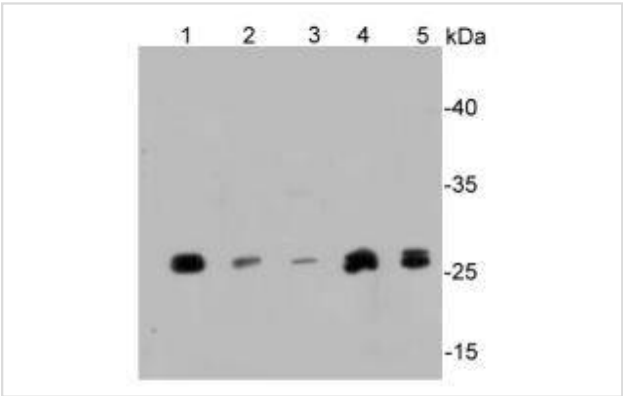
Description

Product Name	SIRT3 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Peptide affinity purified
Applications	WB, ICC, IHC, FC
Species Reactivity	Hu, Ms
Immunogen Description	peptide
Other Names	hSIRT 3 antibody hSIRT3 antibody Mitochondrial nicotinamide adenine dinucleotide dependent deacetylase antibody NAD dependent deacetylase sirtuin 3 mitochondrial antibody NAD-dependent protein deacetylase sirtuin-3, mitochondrial antibody Regulatory protein SIR2 homolog 3 antibody Silent mating type information regulation 2 S.cerevisiae homolog 3 antibody Sir 2 like 3 antibody SIR 2 like protein 3 antibody SIR 3 antibody SIR2 L3 antibody Sir2 like 3 antibody SIR2 like protein 3 antibody SIR2-like protein 3 antibody SIR2L3 antibody SIR3_HUMAN antibody SIRT 3 antibody SIRT3 antibody Sirtuin 3 antibody Sirtuin silent mating type information regulation 2 homolog 3 (S. cerevisiae) antibody Sirtuin type 3 antibody Sirtuin3 antibody
Accession No.	Swiss-Prot#:Q9NTG7
Uniprot	Q9NTG7
GenelD	23410;
Calculated MW	44/28kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

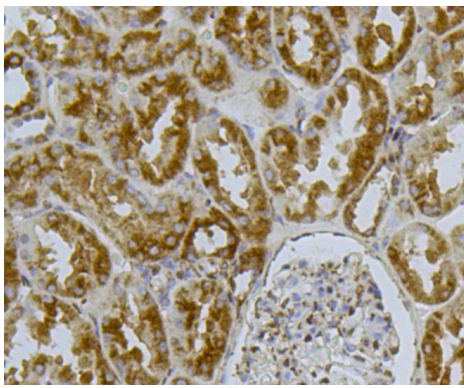
Application Details

WB: 1:1,000IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

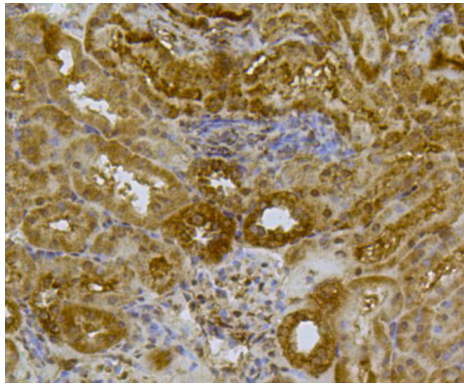
Images



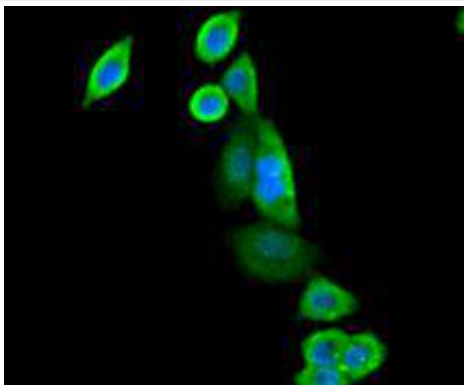
Western blot analysis on different lysates using anti-SIRT3 rabbit polyclonal antibody. Positive control: Lane 1: A172  
Lane 2: Mouse liver Lane 3: NIH/3T3 Lane 4: Mouse kidney  
Lane 5: F9



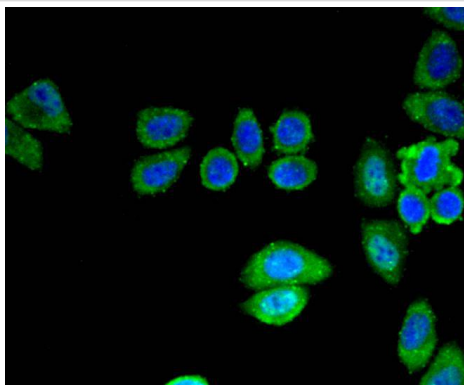
Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-SIRT3 rabbit polyclonal antibody.



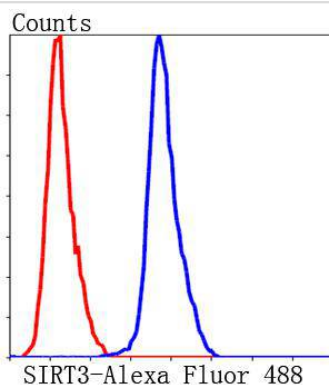
Immunohistochemical analysis of paraffin- embedded mouse kidney tissue using anti-SIRT3 rabbit polyclonal antibody.



Immunocytochemical staining of MCF-7 cells using anti-SIRT3 rabbit polyclonal antibody.



Immunocytochemical staining of HepG2 cells using anti-SIRT3 rabbit polyclonal antibody.



Flow cytometric analysis of HepG2 cells with SIRT3 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated Goat anti rabbit IgG was used as the secondary antibody.

## Background

The Silent Information Regulator (SIR2) family of genes are highly conserved from prokaryotes to eukaryotes and are involved in diverse processes, including transcriptional regulation, cell cycle progression, DNA-damage repair and aging. In *S. cerevisiae*, Sir2p deacetylates histones in an NAD-dependent manner, which regulates silencing at the telomeric, rDNA and silent mating-type loci. Sir2p is the founding member of a large family, designated sirtuins, which contain a conserved catalytic domain. The human homologues, which include SIRT1-7, are divided into four main branches: SIRT1-3 are class I, SIRT4 is class II, SIRT5 is class III and SIRT6-7 are class IV. SIRT3 is a NAD-dependent deacetylase that contains one deacetylase sirtuin-type domain. The SIRT3 protein is widely expressed and localizes to the mitochondria where it is processed by mitochondrial processing peptidase (MPP) to yield a final product. This processing is most-likely necessary for its enzymatic activity.

## References

Note: This product is for in vitro research use only