SIRT3 Antibody

Catalog No: #48243

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

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

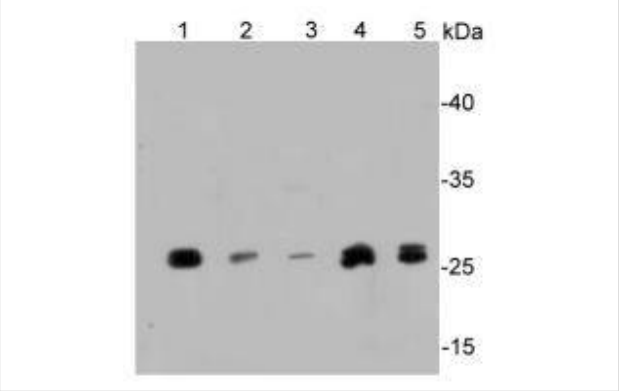
Description

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
GeneID	23410;
Calculated MW	44/28kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

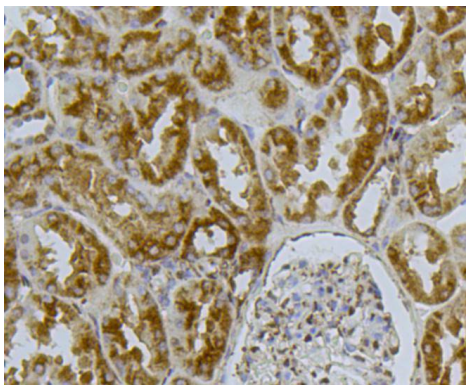
Application Details

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

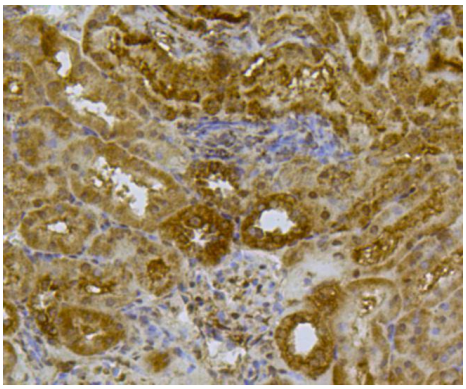
Images



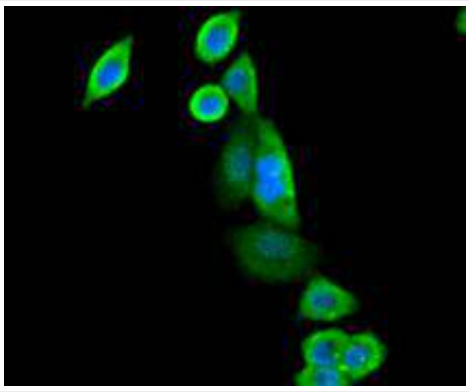
Western blot analysis on different lysates using anti-SIRT3 rabbit polyclonal antibody. Positive control: Lane 1: A172 Lane 2: Mouse liver Lane 3: NIH/3T3 Lane 4: Mouse kidney Lane 5: F9



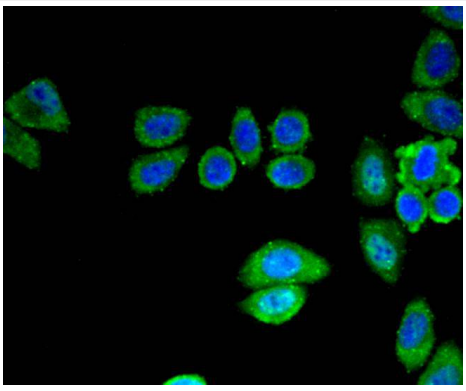
Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-SIRT3 rabbit polyclonal antibody.



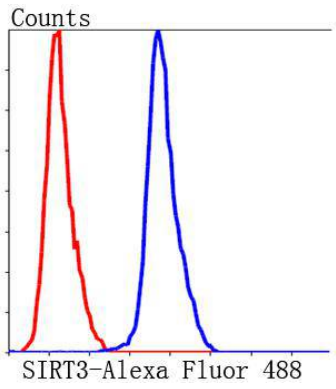
Immunohistochemical analysis of paraffin- embedded mouse kidney tissue using anti-SIRT3 rabbit polyclonal antibody.



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 mitochondira 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