

SIRT1(Phospho-T530) Rabbit mAb

Catalog No: #13417

Package Size: #13417-1 50ul #13417-2 100ul

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Description

Product Name	SIRT1(Phospho-T530) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JJ206-6
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Thr530 of human SIRT1.
Conjugates	Unconjugated
Other Names	75SirT1 antibody hSIR2 antibody hSIRT1 antibody HST2, S. cerevisiae, homolog of antibody NAD dependent deacetylase sirtuin 1 antibody NAD dependent protein deacetylase sirtuin 1 antibody OTTHUMP00000198111 antibody OTTHUMP00000198112 antibody Regulatory protein SIR2 homolog 1 antibody SIR1_HUMAN antibody SIR2 antibody SIR2 like 1 antibody SIR2 like protein 1 antibody SIR2, S.cerevisiae, homolog-like 1 antibody SIR2-like protein 1 antibody SIR2ALPHA antibody SIR2L1 antibody Sirt1 antibody SirtT1 75 kDa fragment antibody Sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae) antibody Sirtuin 1 antibody Sirtuin type 1 antibody
Accession No.	Swiss-Prot#:Q96EB6
Calculated MW	Predicted band size: 82 kDa
SDS-PAGE MW	Observed band size: 120 kDa
Formulation	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

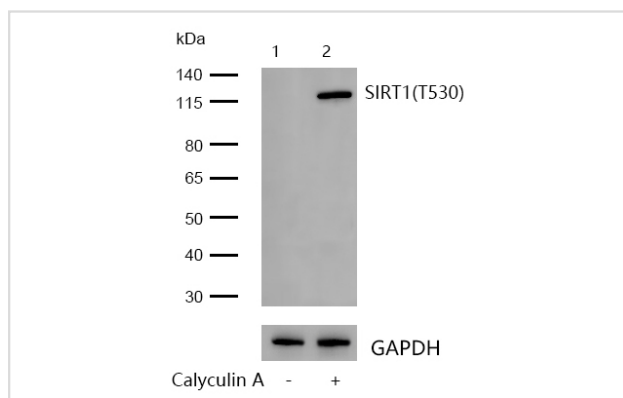
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : SIRT1(Phospho-T530) Rabbit mAb at 1/1k dilution

Lane 1 : 293T whole cell lysates

Lane 2 : 293T treated with 100nM Calyculin A for 30min whole cell lysate

Lysates/proteins at 20 µg per lane.

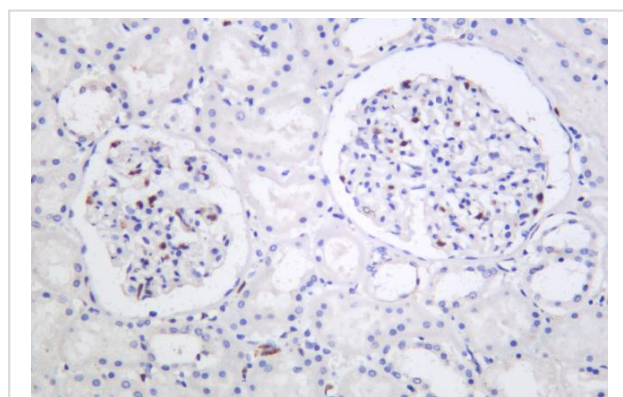
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

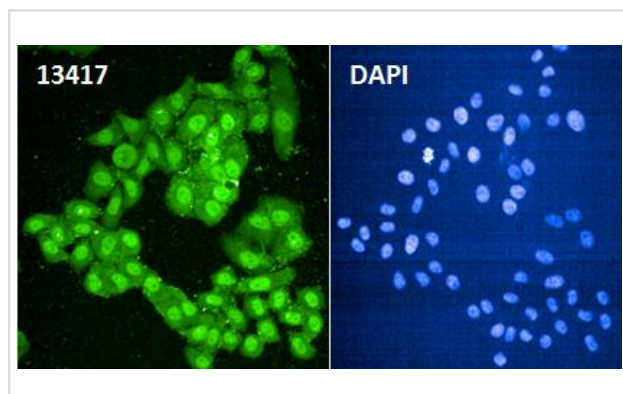
Predicted band size: 82 kDa

Observed band size: 120 kDa

Exposure time: 12 seconds



Formalin-fixed, paraffin-embedded human kidney tissue stained for SIRT1 (Phospho-T530) using 13417 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence

SIRT1(Phospho-T530) antibody (13417)

ICC/IF staining of SIRT1(Phospho-T530) in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 13417 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

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 homologs, 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. SIRT1 has the closest homology to the yeast Sir2p and is widely expressed in fetal and adult tissues. SIRT1 is highly expressed in heart, brain and skeletal muscle, with low expression in lung and placenta. SIRT1 regulates the p53-dependent DNA damage response pathway by binding to and deacetylating p53, specifically at Lys 382.

References

Note: This product is for in vitro research use only and is not intended for use in humans or animals.