For Research Use Only

SIRT2 Polyclonal antibody

Catalog Number:15345-1-AP 2 Publications

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Basic Information

Catalog Number:
15345-1-AP

Size:
400 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7556

GenBank Accession Number:
BC003547

GeneID (NCBI):
22933

UNIPROT ID:
Q8IXJ6

Full Name:
sirtuin (silent mating type information regulation 2 homolog) 2 (S. cerevisiae)

Calculated MW:
43 kDa

Observed MW:
37-45 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200

Applications

Tested Applications:
IHC, WB,ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human brain tissue, mouse brain tissue, rat kidney tissue

IHC : human heart tissue, human breast cancer tissue

Background Information

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. SIR2 contains a 323 amino acid catalytic core domain with a NAD-binding domain and a large groove which is the likely site of catalysis. SIR2 is widely expressed, highly expressed in heart, brain and skeletal muscle, while it is weakly expressed in placenta and lung. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of microtubule network. This antibody is a rabbit polyclonal antibody raised against the N-terminal 352 residues of human SIR2 protein.

Notable Publications

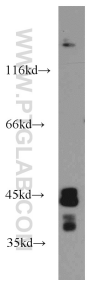
Author	Pubmed ID	Journal	Application
Ming He	32032542	Cell Metab	WB
Erik Späte	38587131	Glia	

Storage

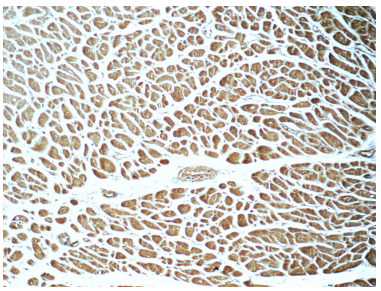
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

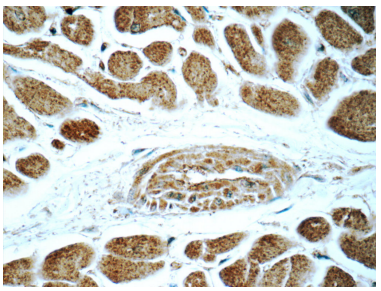
Selected Validation Data



human brain tissue were subjected to SDS PAGE followed by western blot with 15345-1-AP (SIRT2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15345-1-AP (SIRT2 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 15345-1-AP (SIRT2 Antibody) at dilution of 1:50 (under 40x lens).