

For Research Use Only

SIRT2 Monoclonal antibody, PBS Only



Catalog Number: 66410-1-PBS

Featured Product

Basic Information

Catalog Number:

66410-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG7756

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:

Protein G purification

CloneNo.:

1D8G10

Applications

Tested Applications:

WB, IF, IHC, Indirect ELISA

Species Specificity:

human, mouse, rat, pig

Background Information

The silent information regulator (SIR2) family of genes is highly conserved from prokaryotes to eukaryotes and is 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 and highly expressed in the heart, brain, and skeletal muscle, while it is weakly expressed in the placenta and lungs. Down-regulated in many gliomas suggesting that it may act as a tumor suppressor gene in human gliomas possibly through the regulation of the microtubule network. SIR2 exists in various isoforms and the molecular weight of isoforms are 35 kDa, 40 kDa, and 42 kDa.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

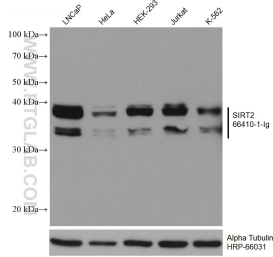
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

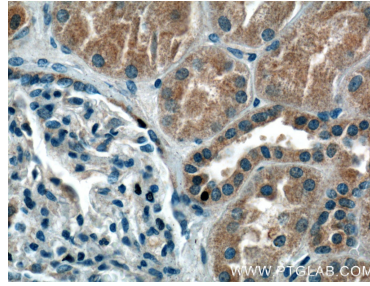
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

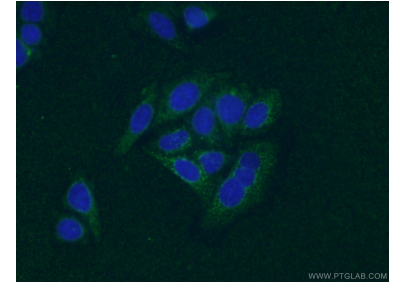
Selected Validation Data



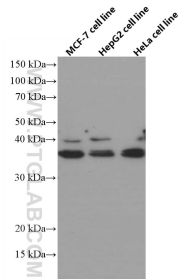
Various lysates were subjected to SDS PAGE followed by western blot with 66410-1-Ig (SIRT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control. This data was developed using the same antibody clone with 66410-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66410-1-Ig (SIRT2 Antibody) at dilution of 1:200 (under 40x lens). This data was developed using the same antibody clone with 66410-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 66410-1-Ig(SIRT2 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 66410-1-PBS in a different storage buffer formulation.



Various lysates were subjected to SDS PAGE followed by western blot with 66410-1-Ig (SIRT2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66410-1-PBS in a different storage buffer formulation.