

For Research Use Only

SIRT4 Monoclonal antibody

Catalog Number: 66543-1-Ig

Featured Product

35 Publications



Basic Information

Catalog Number:

66543-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG17347

GenBank Accession Number:

BC109319

GeneID (NCBI):

23409

UNIPROT ID:

Q9Y6E7

Full Name:

sirtuin (silent mating type
information regulation 2 homolog) 4
(S. cerevisiae)

Calculated MW:

314 aa, 35 kDa

Observed MW:

35 kDa

Purification Method:

Protein A purification

CloneNo.:

1D5A2

Recommended Dilutions:

WB 1:20000-1:80000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

Human

Cited Species:

human

Positive Controls:

WB : HeLa cells, NCCIT cell, PC-3 cells, L02 cells

Background Information

SIRT4, also named as NAD-dependent protein lipoamidase sirtuin-4, mitochondria, is a 314 amino acid protein, which belongs to the sirtuin family. Class II subfamily. SIRT4 is detected in vascular smooth muscle and striated muscle. SIRT4 is detected in insulin-producing beta-cells in pancreas islets of Langerhans. SIRT4 Acts as NAD-dependent protein lipoamidase, ADP-ribosyl transferase and deacetylase. It catalyzes more efficiently removal of lipoyl- and biotinyl- than acetyl-lysine modifications and inhibits the pyruvate dehydrogenase complex (PDH) activity via the enzymatic hydrolysis of the lipoamide cofactor from the E2 component, DLAT, in a phosphorylation-independent manner. SIRT4 expression is down-regulated in a number of cancers, while overexpression reduces cell proliferation, transformation, and tumor development.

Notable Publications

Author	Pubmed ID	Journal	Application
Leonie Drews	32917661	Dis Model Mech	WB
Ying Cui	33033517	J Cancer	WB
Kalaiselvi Sivalingam	34716387	Sci Rep	WB

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:

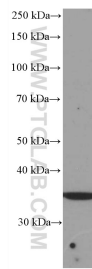
T: 4006900926

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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

Selected Validation Data



HeLa cells were subjected to SDS PAGE followed by western blot with 66543-1-Ig (SIRT4 antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.