

For Research Use Only

SIRT4 Monoclonal antibody, PBS Only

Catalog Number: 66543-1-PBS

Featured Product



Basic Information

Catalog Number:

66543-1-PBS

Size:

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

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

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

Human

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.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

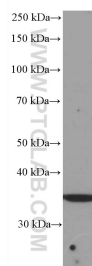
For technical support and original validation data for this product please contact:

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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. This data was developed using the same antibody clone with 66543-1-PBS in a different storage buffer formulation.