#### For Research Use Only

# SIRT4 Monoclonal antibody

Catalog Number:66543-1-lg Featured Product 35 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number:

66543-1-lg BC109319 Protein A purification GeneID (NCBI): CloneNo.: Size:

1D5A2 150ul, Concentration: 1000 ug/ml by 23409

Nanodrop and 301 ug/ml by Bradford UNIPROT ID: **Recommended Dilutions:** method using BSA as the standard; Q9Y6E7 WB 1:20000-1:80000

Source: Full Name:

Mouse sirtuin (silent mating type

Isotype: information regulation 2 homolog) 4

(S. cerevisiae) lgG1 Immunogen Catalog Number: Calculated MW:

AG17347 314 aa, 35 kDa

Observed MW: 35 kDa

**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, LO2 cells

**Purification Method:** 

### **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 NADdependent 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 phosphorylationindependent 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.

\*\*\* 20ul sizes contain 0.1%BSA

Aliquoting is unnecessary for -20°C storage

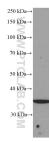
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free

in USA), or 1(312) 455-8498 (outside USA)

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

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## Selected Validation Data



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