

For Research Use Only

SIRT4 Polyclonal antibody

Catalog Number: 28148-1-AP



Basic Information

Catalog Number: 28148-1-AP	GenBank Accession Number: BC109319	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 750 ug/ml by Nanodrop;	GeneID (NCBI): 23409	Recommended Dilutions: WB: 1:1000-1:6000 IF-P: 1:50-1:500
Source: Rabbit	UNIPROT ID: Q9Y6E7	
Isotype: IgG	Full Name: sirtuin (silent mating type information regulation 2 homolog) 4 (S. cerevisiae)	
Immunogen Catalog Number: AG28003	Calculated MW: 314 aa, 35 kDa	
	Observed MW: 30-35 kDa	

Applications

Tested Applications: WB, IF-P, ELISA	Positive Controls:
Species Specificity: human, mouse	WB : mouse heart tissue, mouse liver tissue IF-P : mouse brain tissue,

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

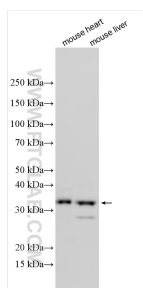
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

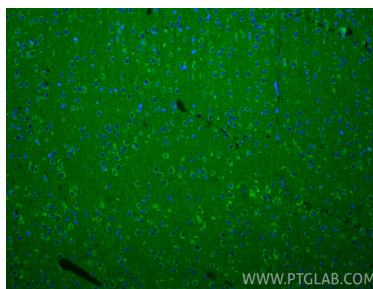
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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 28148-1-AP (SIRT4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using SIRT4 antibody (28148-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).