

For Research Use Only

# PLIN4 Polyclonal antibody

Catalog Number: 55404-1-AP

5 Publications



## Basic Information

### Catalog Number:

55404-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 447 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_001080400

### GeneID (NCBI):

729359

### UNIPROT ID:

Q96Q06

### Full Name:

KIAA1881

### Calculated MW:

141 kDa

### Observed MW:

141 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human

### Cited Species:

human, mouse, goat

### Positive Controls:

WB : PC-3 cells, Jurkat

IHC : human pancreas tissue,

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

PLIN4 (Perilipin 4) is a member of the perilipin family, a group of proteins that coat lipid droplets in adipocytes, the fatty tissue cells responsible for storing fat. The proteins in the Perilipin family are crucial regulators of lipid storage. PLIN4 expression is elevated in obese animals and humans. Plin4 is a lipid droplet protein (LDP) found predominantly in white adipose tissue (PMID: 23423172). It has lower expression in the heart, skeletal muscle, and brown adipose tissue (PMID: 17878492).

## Notable Publications

Author	Pubmed ID	Journal	Application
Qi Wang	36151849	Ann Clin Transl Neurol	IF
Mika Yamada	35283217	J Lipid Res	WB
Florent Laferrière	30559480	Nat Neurosci	

## 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

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

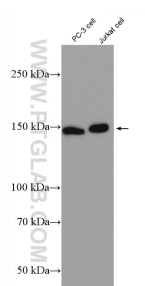
For technical support and original validation data for this product please contact:

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

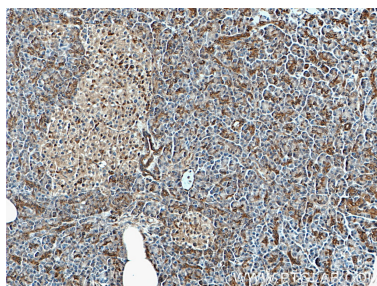
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

## Selected Validation Data



PC-3 cells and Jurkat cells were subjected to SDS PAGE followed by western blot with 55404-1-AP (S3-12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas tissue slide using 55404-1-AP (S3-12 antibody) at dilution of 1:200 (under 10x lens).