

For Research Use Only

# PLIN4 Polyclonal antibody

Catalog Number: 55404-1-AP

5 Publications



## Basic Information

Catalog Number:

55404-1-AP

Size:

1000 ug/ml

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

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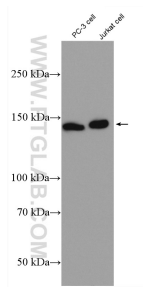
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

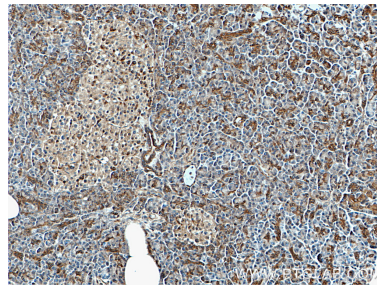
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## Selected Validation Data



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).