

For Research Use Only

# PLIN4 Polyclonal antibody

Catalog Number: 55404-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 55404-1-AP	<b>GenBank Accession Number:</b> NM_001080400	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 729359	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96Q06	
<b>Isotype:</b> IgG	<b>Full Name:</b> KIAA1881	
	<b>Calculated MW:</b> 141 kDa	
	<b>Observed MW:</b> 141 kDa	

## Applications

<b>Tested Applications:</b> IHC, WB, ELISA	<b>Positive Controls:</b> WB : PC-3 cells, Jurkat IHC : human pancreas tissue,
<b>Cited Applications:</b> IF, WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse	

**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 adipose tissue cells that are 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 is lower expression in 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	

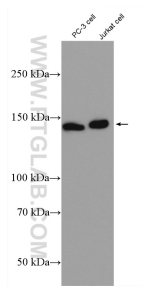
## Storage

**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

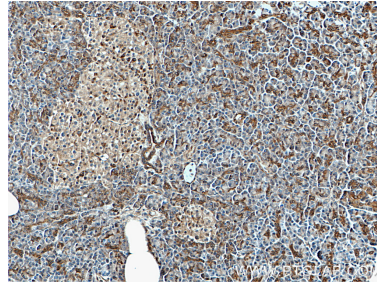
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## Selected Validation Data



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).