

For Research Use Only

# Perilipin 5 Polyclonal antibody

Catalog Number: 26951-1-AP

Featured Product

22 Publications



## Basic Information

### Catalog Number:

26951-1-AP

### Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG25272

### GenBank Accession Number:

BC131524

### GeneID (NCBI):

440503

### UNIPROT ID:

Q00G26

### Full Name:

lipid storage droplet protein 5

### Calculated MW:

463 aa, 51 kDa

### Observed MW:

51-55 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat, pig

### Cited Species:

human, mouse, rat, goat

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

### Positive Controls:

**WB** : MCF-7 cells, mouse liver tissue, pig heart tissue, mouse heart tissue, rat heart tissue

**IHC** : human liver tissue, mouse heart tissue, mouse brown adipose tissue, human heart tissue

## Background Information

Perilipin 5 (also known as LSDP5/OXPAT) is a lipid droplet (LD) coat protein that promotes association of LDs with mitochondria and is mainly present in tissues with a high fat-oxidative capacity, such as heart, skeletal muscles and brown adipose tissue. It plays an important role in the regulation of cardiac lipid storage and function.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xinyu Bao	36107452	J Mol Cell Biol	WB
Yanjie Tan	31614673	Cells	WB
Miljenko V Panajatovic	34066911	Int J Mol Sci	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.

Aliquoting is unnecessary for -20°C storage

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

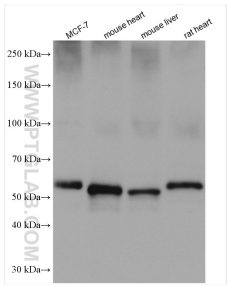
For technical support and original validation data for this product please contact:

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

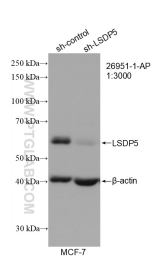
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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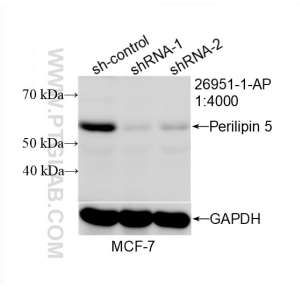
Selected Validation Data



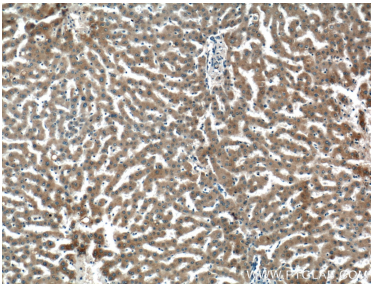
Various lysates were subjected to SDS PAGE followed by western blot with 26951-1-AP (Perilipin 5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



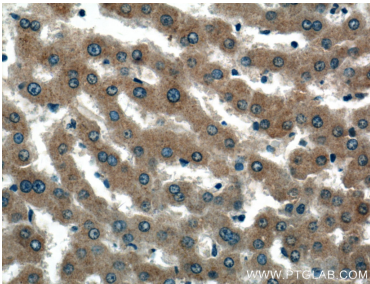
WB result of Perilipin 5 antibody (26951-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Perilipin 5 transfected MCF-7 cells.



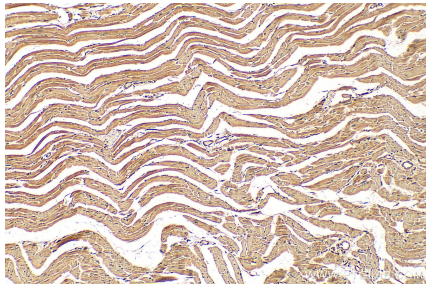
WB result of Perilipin 5 antibody (26951-1-AP; 1:4000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Perilipin 5 transfected MCF-7 cells.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26951-1-AP (Perilipin 5 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26951-1-AP (Perilipin 5 antibody) at dilution of 1:200 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 26951-1-AP (Perilipin 5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).