

For Research Use Only

Perilipin 1 Polyclonal antibody

Catalog Number: 27716-1-AP **2 Publications**



Basic Information

Catalog Number: 27716-1-AP	GenBank Accession Number: NM_001145311	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop;	GeneID (NCBI): 5346	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:200-1:800 IF 1:50-1:500
Source: Rabbit	Full Name: perilipin	
Isotype: IgG	Calculated MW: 56 kDa	
Immunogen Catalog Number: AG26426	Observed MW: 62-67 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : 3T3-L1 cells, MCF-7 cells, NIH/3T3 cells, mouse liver tissue
Cited Applications: WB	IHC : mouse brown adipose tissue,
Species Specificity: Human, mouse	IF : mouse brown adipose tissue,
Cited Species: 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

PLIN1, also known as Perilipin 1, PLIN, PERI, belongs to the perilipin family. PLIN1 is a hormonally-regulated phosphoprotein that encircles the lipid storage droplet in adipocytes and is a modulator of adipocyte lipid metabolism (PMID: 2040638). PLIN1 is the major cAMP-dependent protein kinase substrate in adipocytes and, when unphosphorylated, may play a role in the inhibition of lipolysis. PLIN1 is detected in adipocytes of white adipose tissue, visceral adipose tissue and mammary gland (PMID: 27832861, 9521880). The deficiency of PLIN1 causes lipodystrophic syndromes, which disables the optimal accumulation of triglycerides in adipocytes that derives in an abnormal deposition of lipids in tissues such as skeletal muscle and liver. The storage of lipids in the liver leads to insulin resistance and hypertriglyceridemia (PMID: 21345103).

Notable Publications

Author	Pubmed ID	Journal	Application
Jiang Du	38158076	Metabolism	WB
Zi-Wei Yang	37542393	Hum Gene Ther	WB

Storage

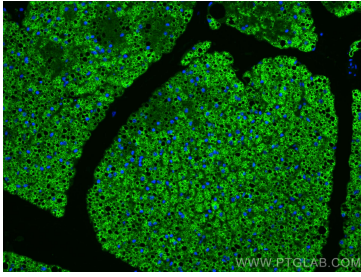
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

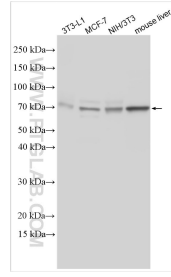
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

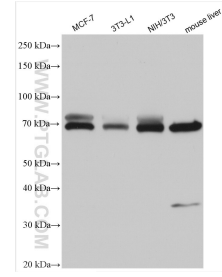
Selected Validation Data



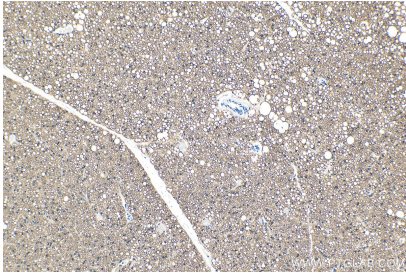
Immunofluorescent analysis of (4% PFA) fixed mouse brown adipose tissue using PLIN1 antibody (27716-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



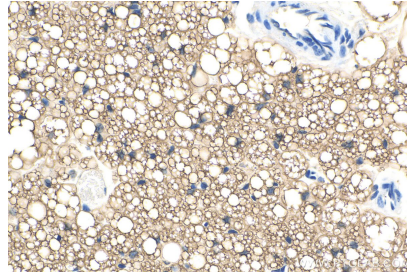
Various lysates were subjected to SDS PAGE followed by western blot with 27716-1-AP (Perilipin 1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



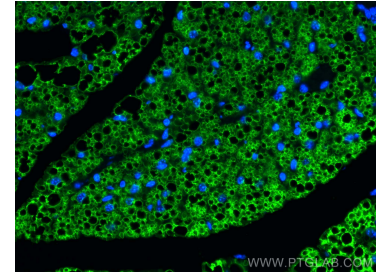
Various lysates were subjected to SDS PAGE followed by western blot with 27716-1-AP (PLIN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 27716-1-AP (Perilipin 1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 27716-1-AP (Perilipin 1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brown adipose tissue using PLIN1 antibody (27716-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).