

For Research Use Only

# Perilipin-2 Polyclonal antibody

Catalog Number: 15294-1-AP

Featured Product

161 Publications



## Basic Information

<b>Catalog Number:</b> 15294-1-AP	<b>GenBank Accession Number:</b> BC005127	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 850 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 123	<b>Recommended Dilutions:</b> WB 1:2000-1:16000 IHC 1:200-1:8000 IF/ICC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99541	
<b>Isotype:</b> IgG	<b>Full Name:</b> adipose differentiation-related protein	
<b>Immunogen Catalog Number:</b> AG7539	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 45-48 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Cited Applications:**  
WB, IHC, IF, IP

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse, rat, pig, canine, monkey, zebrafish, bovine, 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 :** HepG2 cells, K-562 cells, mouse liver tissue, 3T3-L1 cells, NIH/3T3 cells, rat liver tissue

**IHC :** human liver cancer tissue, human renal cell carcinoma tissue, human liver tissue, human colon cancer tissue, human prostate cancer tissue, mouse liver tissue

**IF/ICC :** oleic acid treated HeLa cells,

## Background Information

ADRP (adipocyte differentiation related protein) also known as ADFP, adipophilin, or perilipin-2, is a member of PAT family which is responsible for the transportation of lipids and the formation of lipid droplets. ADRP is localized on the surface of lipid droplets in a variety of tissues and cell lines. ADRP is not detected in undifferentiated cells but increases rapidly to high levels when adipocyte precursors differentiate into adipocytes. Anti-ADRP antibody is a reliable and sensitive marker for lipid droplet. Enhanced expression of ADRP is linked to diseases with abnormal lipid storage, including hepatic steatosis, atherosclerosis and diabetes. Immunohistochemistry of ADRP may facilitate histomorphological diagnosis of these diseases.

## Notable Publications

Author	Pubmed ID	Journal	Application
Karuna Irungbam	31570772	Lab Invest	WB,IHC,IF
Binbin Zhou	36169888	Mol Neurobiol	WB
Qi Xue Huang	36175227	J Dairy Sci	WB

## Storage

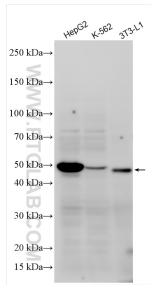
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

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

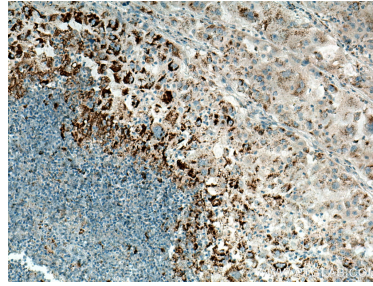
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

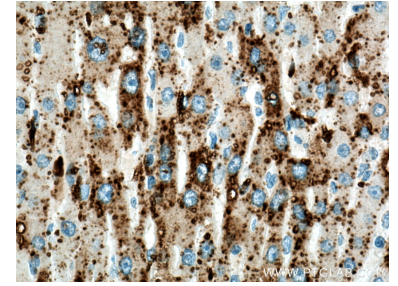
## Selected Validation Data



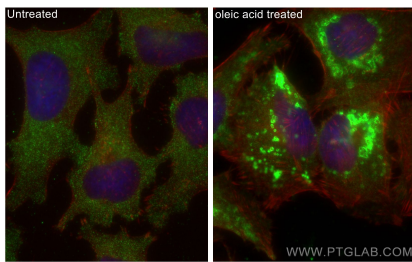
Various lysates were subjected to SDS PAGE followed by western blot with 15294-1-AP (Perilipin-2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



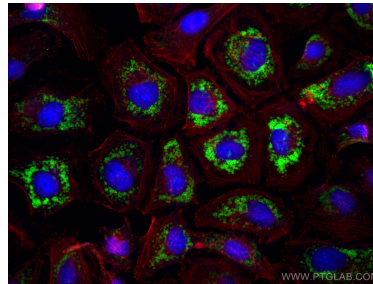
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15294-1-AP (ADRP/Perilipin 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15294-1-AP (ADRP/Perilipin 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using ADRP/Perilipin 2 antibody (15294-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (-20°C Ethanol) fixed oleic acid treated HeLa cells using ADRP/Perilipin-2 antibody (15294-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).