

For Research Use Only

# ADRP Recombinant antibody

Catalog Number: 80362-2-RR



## Basic Information

<b>Catalog Number:</b> 80362-2-RR	<b>GenBank Accession Number:</b> BC005127	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 123	<b>CloneNo.:</b> 230274F4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99541	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IF 1:200-1:800
<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> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, IF, FC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB :</b> THP-1 cells, HepG2 cells, K-562 cells <b>IF :</b> 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.

## Storage

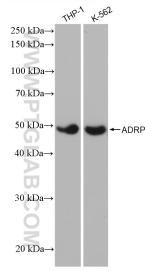
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

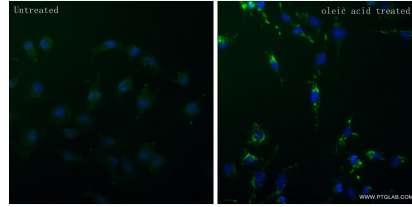
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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

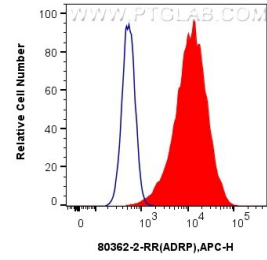
## Selected Validation Data



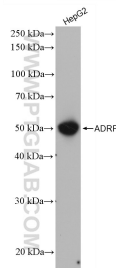
Various lysates were subjected to SDS PAGE followed by western blot with 80362-2-RR (ADRP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed oleic acid treated HeLa cells using ADRP antibody (80362-2-RR, Clone: 230274F4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.25 ug ADRP Recombinant antibody (80362-2-RR, Clone:230274F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Various lysates were subjected to SDS PAGE followed by western blot with 80362-2-RR (ADRP antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.