

**Anti-ADFP Picoband Antibody**  
**Catalog # ABO11701****Specification****Anti-ADFP Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">Q99541</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Perilipin-2(PLIN2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-ADFP Picoband Antibody - Additional Information****Gene ID 123****Other Names**

Perilipin-2, Adipophilin, Adipose differentiation-related protein, ADRP, PLIN2, ADFP

**Calculated MW**

48075 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human<br>

**Subcellular Localization**

Membrane; Peripheral membrane protein.

**Tissue Specificity**

Milk lipid globules.

**Protein Name**

Perilipin-2

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

**Immunogen**

E. coli-derived human ADFP recombinant protein (Position: K226-Q418). Human ADFP shares 88.4% amino acid (aa) sequence identity with mouse ADFP.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

Storage

At -20°C for one year. After r° Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Anti-ADFP Picoband Antibody - Protein Information**

Name PLIN2 ([HGNC:248](#))

**Synonyms** ADFP

**Function**

Structural component of lipid droplets, which is required for the formation and maintenance of lipid storage droplets.

**Cellular Location**

Membrane {ECO:0000250|UniProtKB:P43883}; Peripheral membrane protein {ECO:0000250|UniProtKB:P43883}. Lipid droplet

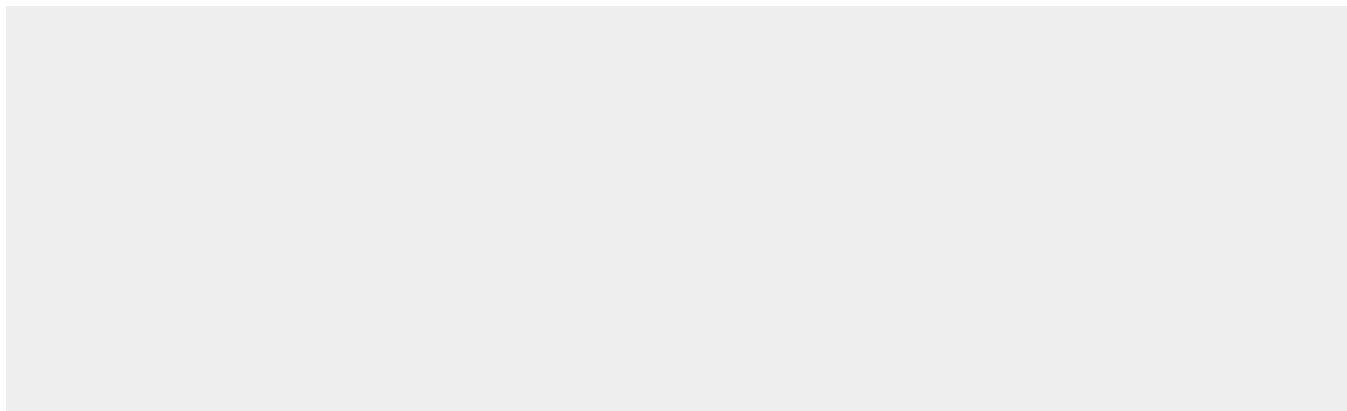
**Tissue Location**

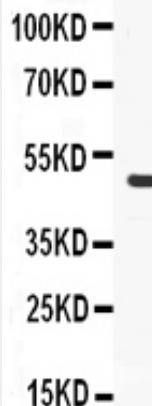
Milk lipid globules..

**Anti-ADFP Picoband Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

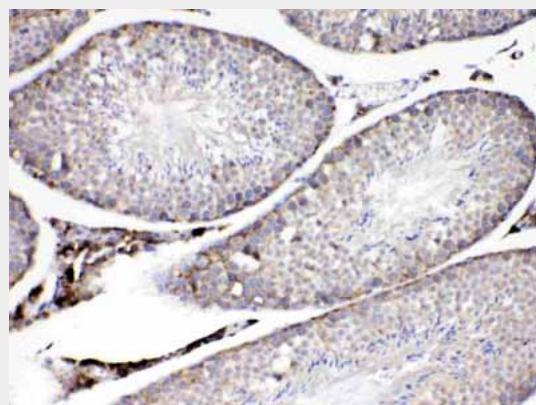
**Anti-ADFP Picoband Antibody - Images**



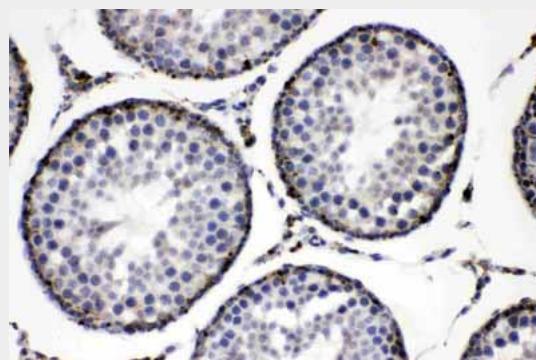
100KD-  
70KD-  
55KD-  
35KD-  
25KD-  
15KD-

A Western blot analysis showing protein bands for ADFP expression in MCF-7 whole cell lysates. The blot has molecular weight markers on the left: 100KD, 70KD, 55KD, 35KD, 25KD, and 15KD. A single dark band is visible at the 48KD mark, indicating the presence of ADFP in the lysates.

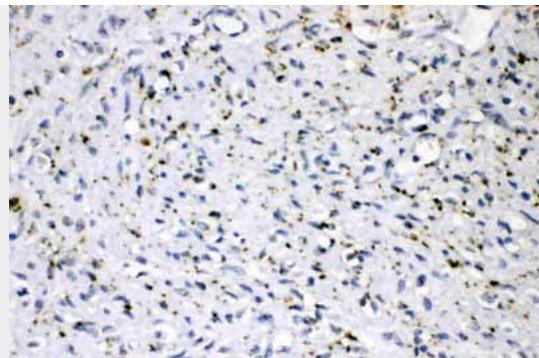
Western blot analysis of ADFP expression in MCF-7 whole cell lysates (lane 1). ADFP at 48KD was detected using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



ADFP was detected in paraffin-embedded sections of mouse testis tissues using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



ADFP was detected in paraffin-embedded sections of rat testis tissues using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



ADFP was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 1 1/4g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-ADFP Picoband Antibody - Background**

Adipose differentiation-related protein, also known as perilipin 2 (PLIN2), ADRP or adipophilin, is a protein which in humans is encoded by the ADFP gene. The protein encoded by this gene belongs to the perilipin family, members of which coat intracellular lipid storage droplets. This protein is associated with the lipid globule surface membrane material, and maybe involved in development and maintenance of adipose tissue. However, it is not restricted to adipocytes as previously thought, but is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells, and tissues, such as lactating mammary gland, adrenal cortex, Sertoli and Leydig cells, and hepatocytes in alcoholic liver cirrhosis, suggesting that it may serve as a marker of lipid accumulation in diverse cell types and diseases. Alternatively spliced transcript variants have been found for this gene.