

# Anti-ADFP Picoband Antibody

Catalog # ABO11701

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                                     |
| <b>Primary Accession</b> | <a href="#">Q99541</a>                                                                                        |
| <b>Host</b>              | Rabbit                                                                                                        |
| <b>Reactivity</b>        | Human, Mouse, Rat                                                                                             |
| <b>Clonality</b>         | Polyclonal                                                                                                    |
| <b>Format</b>            | Lyophilized                                                                                                   |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Perilipin-2 (PLIN2) detection. Tested with WB, IHC-P in Human; Mouse; Rat. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                          |

## Additional Information

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 123                                                                                                                                              |
| <b>Other Names</b>              | Perilipin-2, Adipophilin, Adipose differentiation-related protein, ADRP, PLIN2, ADFP                                                             |
| <b>Calculated MW</b>            | 48075                                                                                                                                            |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, Mouse, Rat, By Heat<br><br>Western blot, 0.1-0.5 $\mu$ g/ml, Human     |
| <b>Subcellular Localization</b> | Membrane; Peripheral membrane protein.                                                                                                           |
| <b>Tissue Specificity</b>       | Milk lipid globules.                                                                                                                             |
| <b>Source</b>                   | Eukaryota                                                                                                                                        |
| <b>Protein Name</b>             | Perilipin-2                                                                                                                                      |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                       |
| <b>Immunogen</b>                | E. coli-derived human ADFP recombinant protein (Position: K226-Q418). Human ADFP shares 88.4% amino acid (aa) sequence identity with mouse ADFP. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                     |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                          |

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|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | At -20 °C for one year. After reconstitution, 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. |
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## Protein Information

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|--------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | PLIN2 ( <a href="#">HGNC:248</a> )                                                                                     |
| <b>Synonyms</b>          | ADFP                                                                                                                   |
| <b>Function</b>          | Structural component of lipid droplets, which is required for the formation and maintenance of lipid storage droplets. |
| <b>Cellular Location</b> | Membrane {ECO:0000250 UniProtKB:P43883}; Peripheral membrane protein {ECO:0000250 UniProtKB:P43883}. Lipid droplet     |
| <b>Tissue Location</b>   | Milk lipid globules..                                                                                                  |

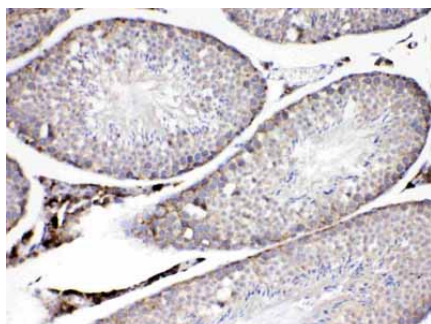
## Background

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.

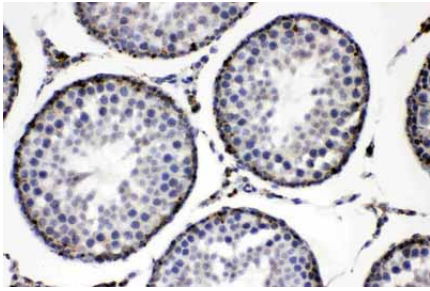
## Images



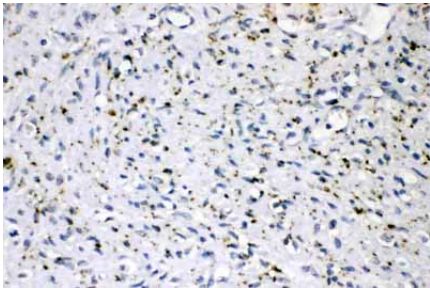
Western blot analysis of ADFP expression in MCF-7 whole cell lysates (lane 1). ADFP at 48KD was detected using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



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

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