10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-ADFP Picoband Antibody

Catalog # ABO11701

Specification

Anti-ADFP Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q99541
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

Western blot, 0.1-0.5 µg/ml, Human

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 Cytomety
- Cell Culture

Anti-ADFP Picoband Antibody - Images

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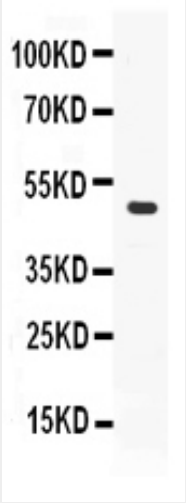
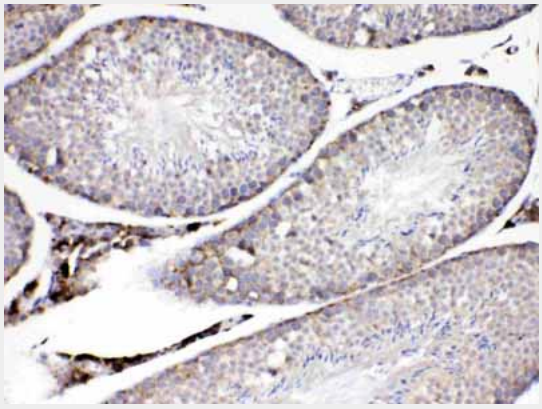
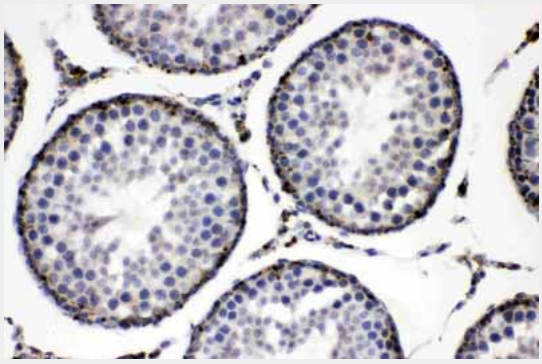


Western blot analysis of ADFP expression in MCF-7 whole cell lysates (lane 1). ADFP at 48KD was detected using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .



ADFP was detected in paraffin-embedded sections of mouse testis tissues using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 1 Î¼g/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 Î¼g/mL. The immunohistochemical section was developed using SABC method .

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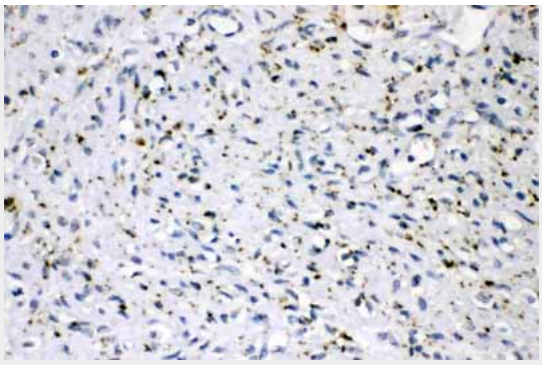

ADFP was detected in paraffin-embedded sections of human mammary cancer tissues using rabbit anti- ADFP Antigen Affinity purified polyclonal antibody (Catalog # ABO11701) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

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.