

## Product Datasheet

# ADFP/PLIN2 Rabbit Polyclonal Antibody (orb381085)

|                             |  |
|-----------------------------|--|
| <b>Catalog Number</b>       | orb381085  |
| <b>Category</b>             | Antibodies   |
| <b>Description</b>          | ADFP/PLIN2 Rabbit Polyclonal Antibody  |
| <b>Target</b>               | Perilipin-2  |
| <b>Clonality</b>            | Polyclonal   |
| <b>Species/Host</b>         | Rabbit   |
| <b>Isotype</b>              | Rabbit IgG   |
| <b>Conjugation</b>          | Unconjugated   |
| <b>Reactivity</b>           | Human  |
| <b>Form/Appearance</b>      | Lyophilized  |
| <b>Concentration</b>        | Adding 0.2 ml of distilled water will yield a concentration of 500 µg/ml.  |
| <b>Buffer/Preservatives</b> | Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .   |
| <b>Reconstitution</b>       | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.   |
| <b>Purification</b>         | Immunogen affinity purified.   |
| <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>UniProt ID</b>           | <a href="#">Q99541</a>   |

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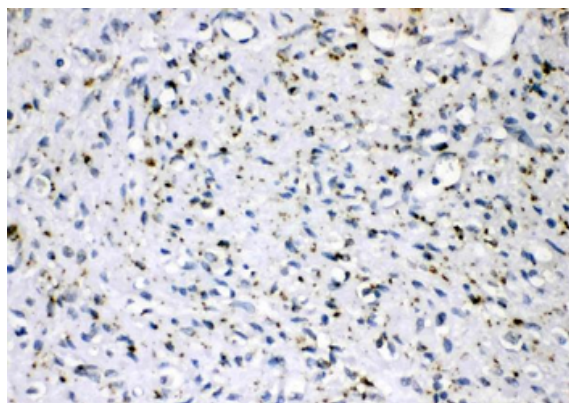
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|                            |   |
|----------------------------|---|
| <b>MW</b>                  | 48 kDa  |
| <b>Tested applications</b> | FC, WB  |
| <b>Dilution range</b>      | Western blot, 0.1-0.5µg/ml, Human Flow Cytometry(Fixed), 1-3 µg/1x10 <sup>6</sup> cells, Human  |
| <b>Specificity</b>         | No cross reactivity with other proteins.  |
| <b>Cross Reactivity</b>    | No cross-reactivity with other proteins   |
| <b>Antibody Type</b>       | Primary Antibody  |
| <b>Storage</b>             | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| <b>Note</b>                | For research use only   |
| <b>Expiration Date</b>     | 12 months from date of receipt.   |



IHC analysis of ADFP using anti-ADFP antibody. ADFP was detected in a paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ADFP Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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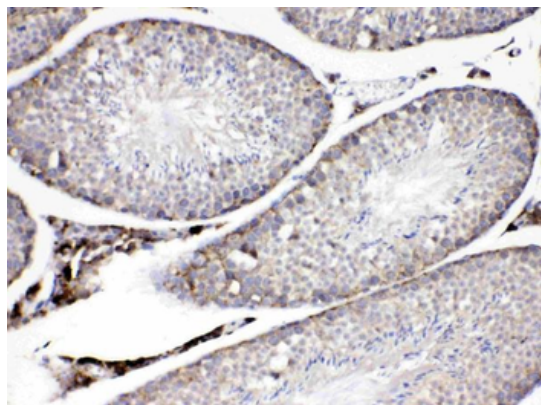
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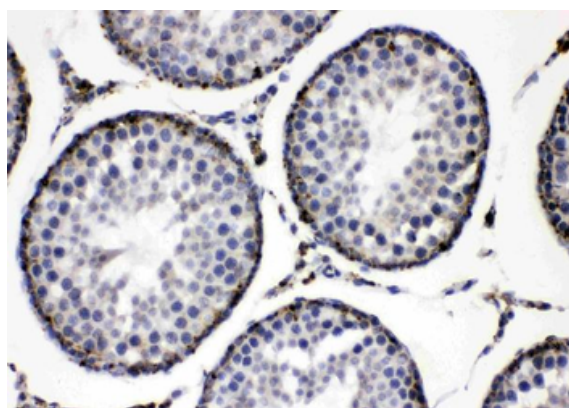
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IHC analysis of ADFP using anti-ADFP antibody. ADFP was detected in a paraffin-embedded section of mouse testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ADFP Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC analysis of ADFP using anti-ADFP antibody. ADFP was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1 µg/ml rabbit anti-ADFP Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.

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Western blot analysis of ADFP using anti-ADFP antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ADFP antigen affinity purified polyclonal antibody at 0.5  $\mu\text{g}/\text{mL}$  overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ADFP at approximately 48 kDa. The expected band size for ADFP is at 48 kDa.

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