Anti-ADFP / PLIN2 Antibody [JA31-81]

ET1704-17

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Tissue, IHC-P
Molecular Wt:	Predicted band size: 48 kDa
Clone number:	JA31-81

Description: 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.

Immunogen: Synthetic peptide within Human ADFP aa 18-67 / 437.

Positive control: HepG2 cell lysate, JAR cell lysate, Human liver tissue lysate, human liver tissue, human liver carcinoma tissue, human stomach tissue.

Subcellular location: Membrane.

Database links: SwissProt: Q99541 Human | P43883 Mouse
Entrez Gene: 298199 Rat

Recommended Dilutions:

WB	1:1,000
IF-Tissue	1:50-1:200
IHC-P	1:100

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

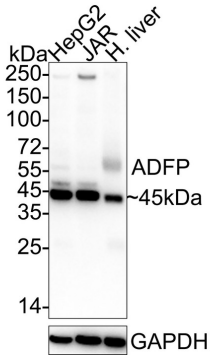

Fig1: Western blot analysis of ADFP / PLIN2 on different lysates with Rabbit anti-ADFP / PLIN2 antibody (ET1704-17) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate
Lane 2: JAR cell lysate
Lane 3: Human liver tissue lysate

Lysates/proteins at 40 µg/Lane.

Predicted band size: 48 kDa
Observed band size: 45 kDa

Exposure time: 1 minute 2 seconds; ECL: K1802;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1704-17) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

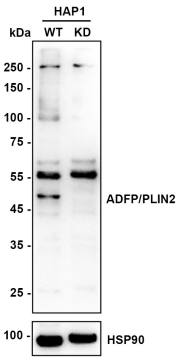

Fig2: Western blot analysis of ADFP / PLIN2 on different lysates with Rabbit anti-ADFP / PLIN2 antibody (ET1704-17) at 1/2,000 dilution.

Lane 1: HAP1-parental cell lysate
Lane 2: HAP1-ADFP / PLIN2 KD cell lysate

Lysates/proteins at 10 µg/Lane.

Predicted band size: 48 kDa
Observed band size: 48 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1704-17) at 1/2,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

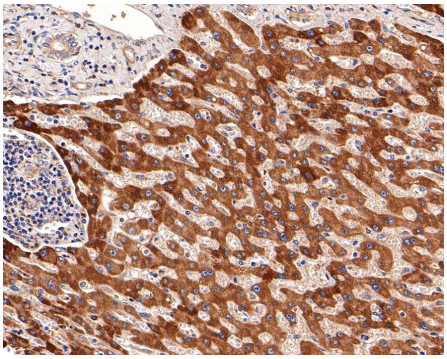

Fig3: Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-ADFP / PLIN2 antibody (ET1704-17) at 1/100 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET1704-17) at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

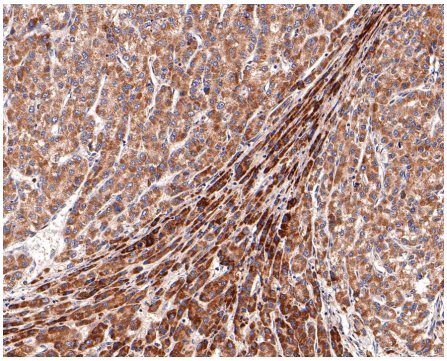

Fig4: Immunohistochemical analysis of paraffin-embedded human liver carcinoma tissue with Rabbit anti-ADFP / PLIN2 antibody (ET1704-17) at 1/100 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET1704-17) at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

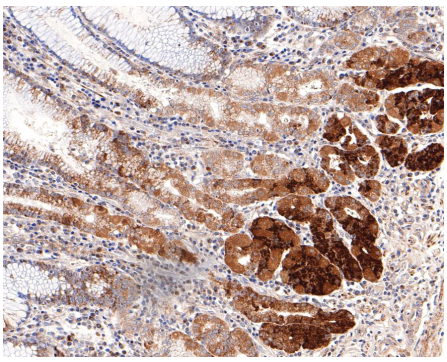

Fig5: Immunohistochemical analysis of paraffin-embedded human stomach tissue with Rabbit anti-ADFP / PLIN2 antibody (ET1704-17) at 1/100 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH_2O and PBS, and then probed with the primary antibody (ET1704-17) at 1/100 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Background References

1. Cunnick JM et al. Actin filament-associated protein 1 is required for cSrc activity and secretory activation in the lactating mammary gland. Oncogene 0:N/A (2014).
2. Tinelli E et al. Muscle-specific function of the centronuclear myopathy and Charcot-Marie-Tooth neuropathy-associated dynamin 2 is required for proper lipid metabolism, mitochondria, muscle fibers, neuromuscular junctions and peripheral nerves. Hum Mol Genet 22:4417-29 (2013).