ADFP Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5118c

Specification

ADFP Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q99541
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**186-214**

ADFP Antibody (Center) - Additional Information

Gene ID 123

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

Target/Specificity
This ADFP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 186-214 amino acids from the Central region of human ADFP.

Dilution
WB~~1:2000
IHC-P~~1:600
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
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.

Precautions
ADFP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ADFP Antibody (Center) - 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
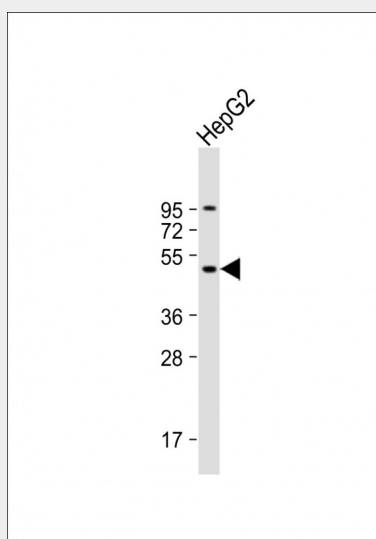
Tissue Location
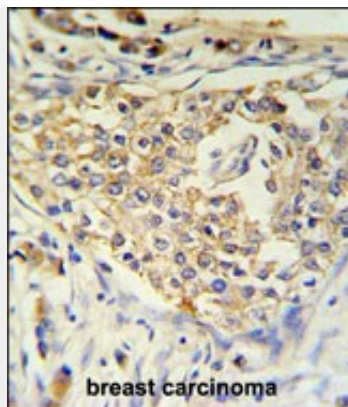Milk lipid globules..

ADFP Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
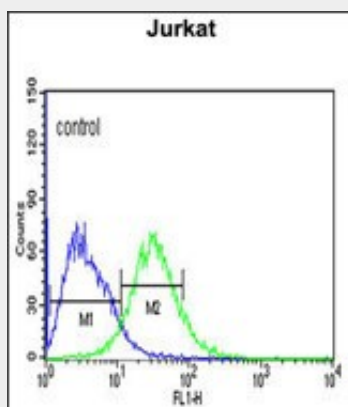- Flow Cytomety
- Cell Culture

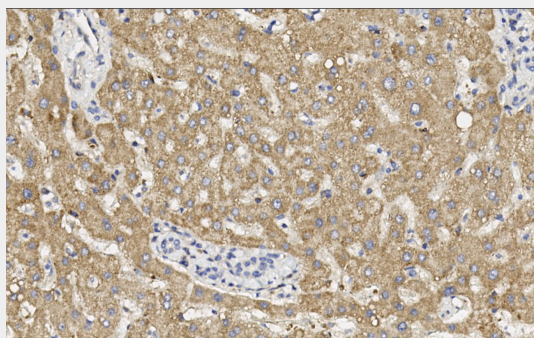## ADFP Antibody (Center) - Images

Anti-ADFP Antibody (Center) at 1:2000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

breast carcinoma

ADFP Antibody (Center) (Cat. #AP5118c) IHC analysis in formalin fixed and paraffin embedded breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ADFP Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ADFP Antibody (Center) (Cat. #AP5118c) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADFP Antibody (Center) (Cat. #AP5118c) IHC analysis in formalin fixed and paraffin embedded human liver followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ADFP Antibody (Center) for immunohistochemistry.

ADFP Antibody (Center) - Background

Adipocyte differentiation-related protein is associated with the globule surface membrane material. This protein is a major constituent of the globule surface. Increase in mRNA levels is one of the earliest indications of adipocyte differentiation.

ADFP Antibody (Center) - References

Kimmel, A.R., et al. J. Lipid Res. 51(3):468-471(2010)
Kotokorpi, P., et al. Mol. Pharmacol. 77(1):79-86(2010)
Minnaard, R., et al. J. Clin. Endocrinol. Metab. 94(10):4077-4085(2009)

ADFP Antibody (Center) - Citations

- A fluorogenic complementation tool kit for interrogating lipid droplet-organelle interaction
- Optimized protocol for the identification of lipid droplet proteomes using proximity labeling proteomics in cultured human cells
- Identification of Lipid Droplet Proteomes by Proximity Labeling Proteomics Using APEX2.
- Lipid droplet formation in Mycobacterium tuberculosis infected macrophages requires IFN-γ/HIF-1α signaling and supports host defense.