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ADFP Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5118c

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q99541
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23216
Calculated MW	48075
Antigen Region	186-214

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~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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.

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..

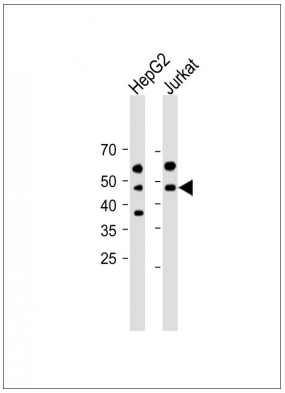
Background

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.

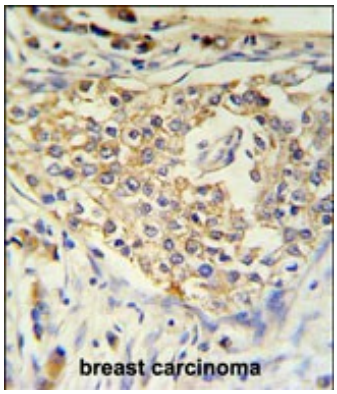
References

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)

Images

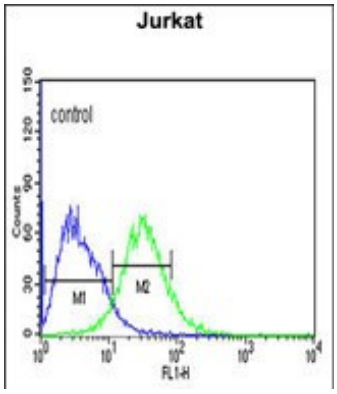


All lanes: Anti-ADFP Antibody (Center) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 48 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



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.



Citations

- 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.