DATASHEET

Adipophilin Rabbit Polyclonal Antibody

CAT. NO. ARA6868

KEY FEATURES

Target	Adipophilin	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC, IF/ICC	Storage	-20°C

BACKGROUND

Milk lipid globules from humans, cows and rats contain a protein identified as adipocyte differentiation-related protein (ADFP). It is associated with the globule surface membrane material. This protein, previously believed to be specific to adipocytes, is a major constituent of the globule surface and is present in a detergent-insoluble complex that contains butyrophilin and xanthine oxidase. ADFP (Adipophilin) is found in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells. In tissues, however, expression of adipophilin is restricted to specific cell types, such as lactating mammary epithelial cells, adrenal cortex cells, Sertoli and Leydig cells of the male reproductive system, and steatosis or fatty change hepatocytes in alcoholic liver cirrhosis. ADFP may be a possible new marker for the identification of specialized differentiated cells containing lipid droplets and for diseases associated with fat-accumulating cells.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:50 - 1:200
IF/ICC	1:50 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Immunogen	Recombinant full length protein of human Adipophilin
Purification	The antibody was purified by immunogen affinity chromatography.
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Gene Name	PLIN2
Alternative Names	ADFP; Perilipin-2; Adipophilin; Adipose differentiation-related protein; ADRP
Human Gene ID	123
Mouse Gene ID	11520
Human Protein ID	Q99541
Mouse Protein ID	P43883

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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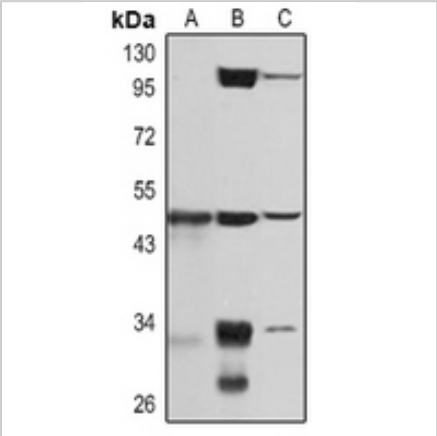
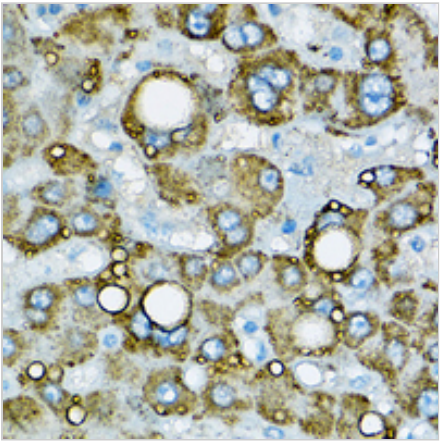
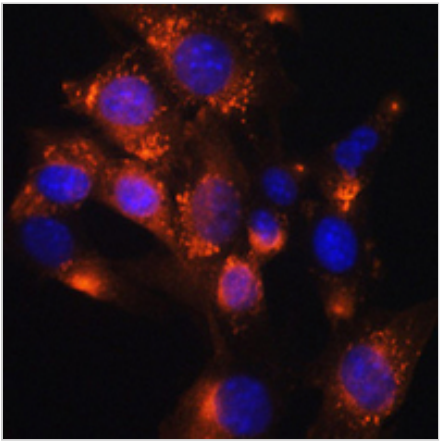
DATA



Western blot analysis of Adipophilin expression in HepG2 (A), mouse brain (B) , rat heart (C) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 48 kD)



Immunohistochemical analysis of Adipophilin staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Adipophilin staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

STORAGE

Shipped at 4℃. Store at -20℃ for one year. Avoid repeated freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.

More information: www.arexbio.com