Datasheet for ABIN738606

anti-ADRP antibody (AA 31-130)

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Overview

Quantity:	100 µL
Target:	ADRP (PLIN2)
Binding Specificity:	AA 31-130
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADRP antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat ADFP
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat
Purification:	Purified by Protein A.

Target Details

Target:	ADRP (PLIN2)

Target Details

Alternative Name:	ADFP (PLIN2 Products)
Background:	Synonyms: ADFP, Adipophilin, Adipose dferentiation related protein, Adipose dferentiation-related protein, Perilipin-2, PLIN2, PLIN2_HUMAN, adipophilin, Adipose dferentiation related protein, ADRP, MGC10598 Background: Milk lipid globules from humans, cows and rats contain a protein identified as adipocyte differentiation-related protein (ADFP) associated with the globule surface membrane material. This protein, previously believed to be specific to adipocytes, was a major constituent of the globule surface and was present in a detergent-insoluble complex that contained stoichiometric amounts of butyrophilin and xanthine oxidase. ADFP (Adipophilin) occurs in a wide range of cultured cell lines, including fibroblasts, endothelial and epithelial cells. In tissues, however, expression of adipophilin is restricted to certain 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.
Gene ID:	298199
Pathways:	Regulation of Lipid Metabolism by PPARalpha, Lipid Metabolism

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

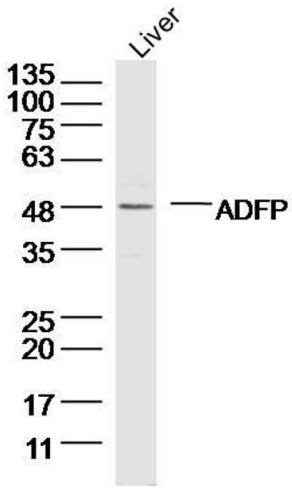
Product cited in:

Zhao, Han, Hong, Sun: "Adipose differentiation-related protein knockdown inhibits vascular smooth muscle cell proliferation and migration and attenuates neointima formation." in: **Molecular medicine reports**, Vol. 16, Issue 3, pp. 3079-3086, (2018) (PubMed).

Amrutkar, Cansby, Nuñez-Durán, Pirazzi, Ståhlman, Stenfeldt, Smith, Borén, Mahlapuu: "Protein kinase STK25 regulates hepatic lipid partitioning and progression of liver steatosis and NASH." in: **FASEB journal : official publication of the Federation of American Societies for Experimental Biology**, Vol. 29, Issue 4, pp. 1564-76, (2015) (PubMed).

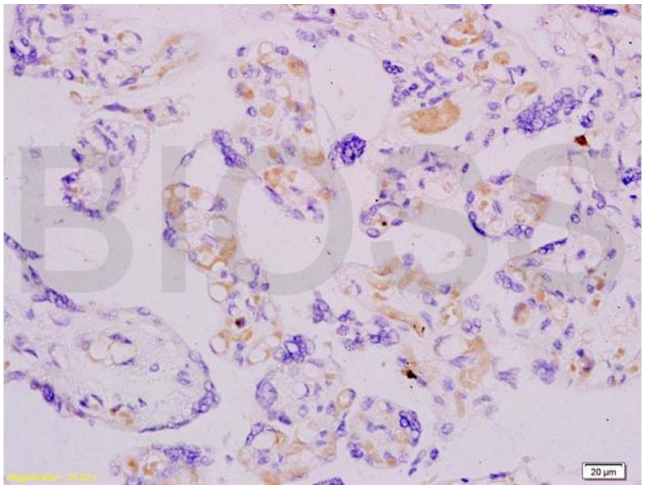
Amrutkar, Cansby, Chursa, Nuñez-Durán, Chanclón, Ståhlman, Fridén, Mannerås-Holm, Wickman, Smith, Bäckhed, Borén, Howell, Mahlapuu: "Genetic Disruption of Protein Kinase STK25 Ameliorates Metabolic Defects in a Diet-Induced Type 2 Diabetes Model." in: **Diabetes**, Vol. 64, Issue 8, pp. 2791-804, (2015) (PubMed).

Liu, Dai, Liu, Liu, Tang, Wang, Yi, Liu, Jiang, Yang, Yuan: "Oxidized low-density lipoprotein activates adipophilin through ERK1/2 signal pathway in RAW264.7 cells." in: **Acta biochimica et biophysica Sinica**, Vol. 42, Issue 9, pp. 635-45, (2010) (PubMed).



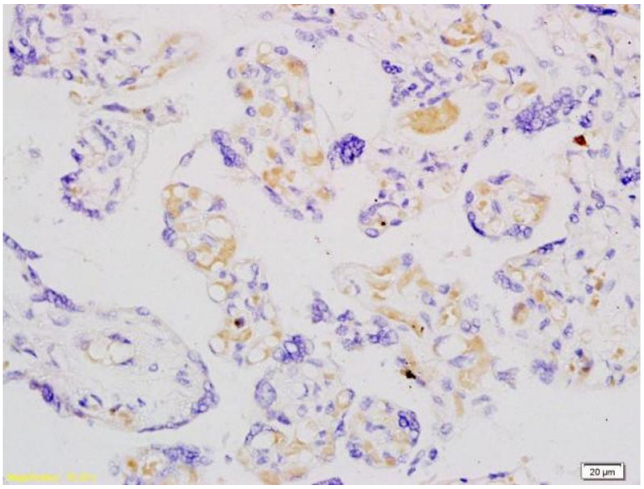
Western Blotting

Image 1. Mouse liver lysates probed with ADFP Polyclonal Antibody, Unconjugated at 1:300 dilution and 4˚C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37˚C.



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded human placenta labeled with Anti-ADFP Polyclonal Antibody, Unconjugated (ABIN738606) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunohistochemistry

Image 3. Formalin-fixed and paraffin embedded human placenta labeled with Anti-ADFP Polyclonal Antibody, Unconjugated at 1:200 followed by conjugation to the secondary antibody and DAB staining.