

Human PEDFR/PNPLA2 antibody

Catalog Number: ATGA0122

PRODUCT INFORMATION

Catalog number

ATGA0122

Clone No.

AT18E6

Product type

Monoclonal Antibody

UnitProt No.

Q96AD5

NCBI Accession No.

NP_065109

Alternative Names

Adipose triglyceride lipase, Calcium-independent phospholipase A2, Desnutrin IPLA2-zeta, Pigment epithelium-derived factor receptor, TTS2.2, Transport-secretion protein 2, TTS2, ATGL, Patatin-like phospholipase domain-containing protein 2, PNPLA2

Additional Information

ATGA0135 has been replaced with a catalog number ATGA0122.

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human ATGL (30-504aa) purified from E. coli

Isotype

IgG2b kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

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Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

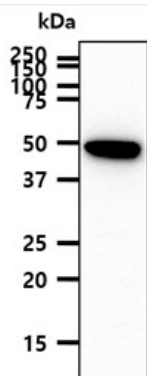
Adipose triglyceride lipase (ATGL) is a 504 amino acid protein that is highly expressed in mouse and human adipose tissue. ATGL catalyzes the initial step in triglyceride hydrolysis in adipocyte lipid droplets and has acylglycerol transacylase activity. Inhibition of ATGL markedly decreases total adipose acyl-hydrolase activity. Thus, ATGL and hormone-sensitive lipase coordinately catabolize stored triglycerides in adipose tissue of mammals.

General References

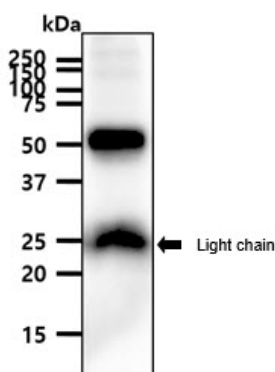
- Fischer J, et al., (2007) Nat Genet. 39(1): 28-30.
Elena S, et al., (2006) EMBO Rep. 7(1): 106-113.
Zimmermann R, et al., (2004) Science. 306(5700): 1383-1386.

DATA

Western blot analysis (WB)



The A431 cell lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ATGL antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

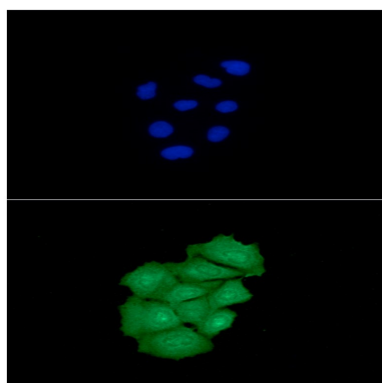


The mouse adipose tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ATGL antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

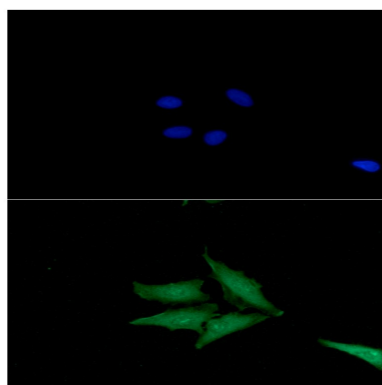
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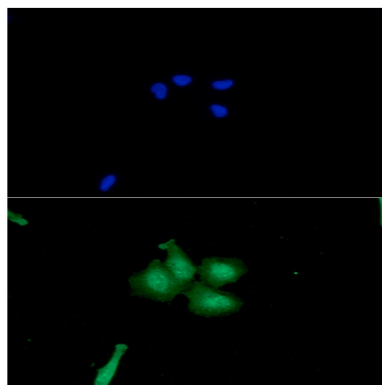
Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of ATGL in Hep3B cells. The cell was stained with ATGA0122 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

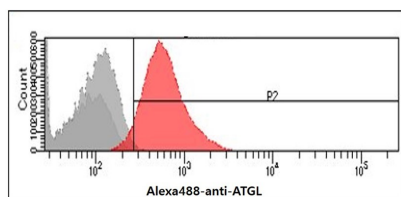


ICC/IF analysis of ATGL in HeLa cells. The cell was stained with ATGA0122 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



ICC/IF analysis of ATGL in A549 cells. The cell was stained with ATGA0122 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)



Flow cytometry analysis of ATGL in Hep3B cells. The cell was stained with ATGA0122 at 2-5ug for 1×10^6 cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).

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