

# Human PEDFR/PNPLA2 antibody

Catalog Number: ATGA0122

## PRODUCT INFORMATION

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**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

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**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

# Human PEDFR/PNPLA2 antibody

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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

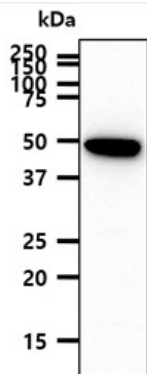
Adipose triglyceride lipase (ATGL) is a 504 amino acid protein that is highly expressed in mouse and human adipose tissue. ATGL catalyzes the initial step in triglyceride hydrolysis in adipocyte lipid droplets and has acylglycerol transacylase activity. Inhibition of ATGL markedly decreases total adipose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

### General References

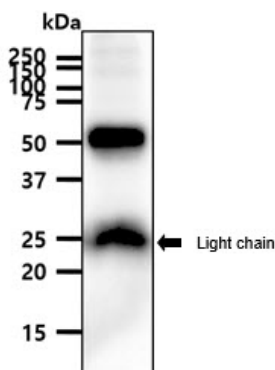
- Fischer J, et al., (2007) Nat Genet. 39(1): 28-30.
- Elena S, et al., (2006) EMBO Rep. 7(1): 106-113.
- Zimmermann R, et al., (2004) Science. 306(5700): 1383-1386.

## 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.

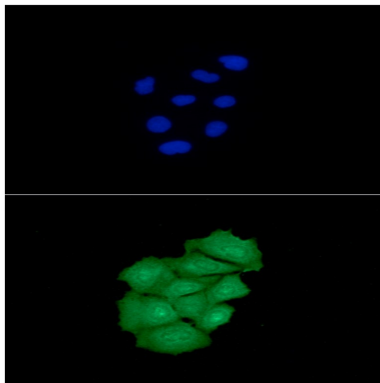


The mouse adipose tissue lysate (40ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human ATGL antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

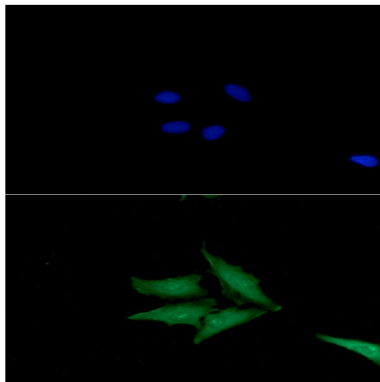
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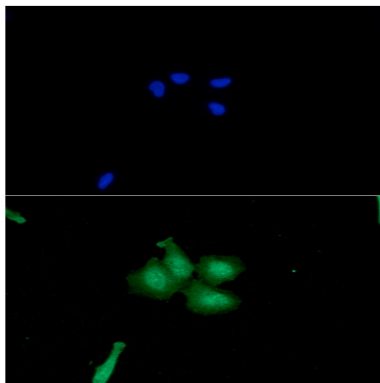
## Immunocytochemistry/Immunofluorescence (ICC/IF)



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).

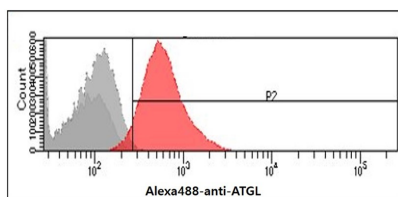


ICC/IF analysis of ATGL in HeLa cells. The cell was stained with ATGA0122 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



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  $1 \times 10^6$  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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