

Monoclonal anti-human ATGL antibody (clone AT18E6)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0122

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

NCBI Accession No.: NP_065109

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human ATGL mAb, clone AT18E6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human ATGL protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB, Flow cytometry, ICC/IF

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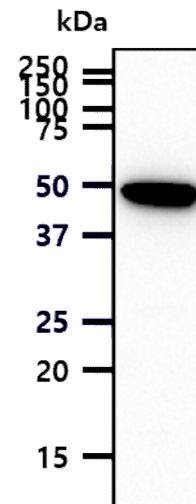


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Product information

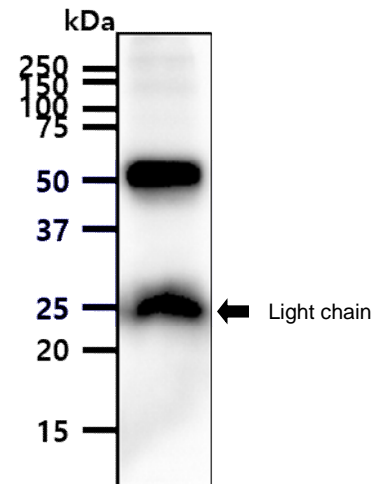
Western blot analysis

The A431 cell lysate (40ug) were 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.



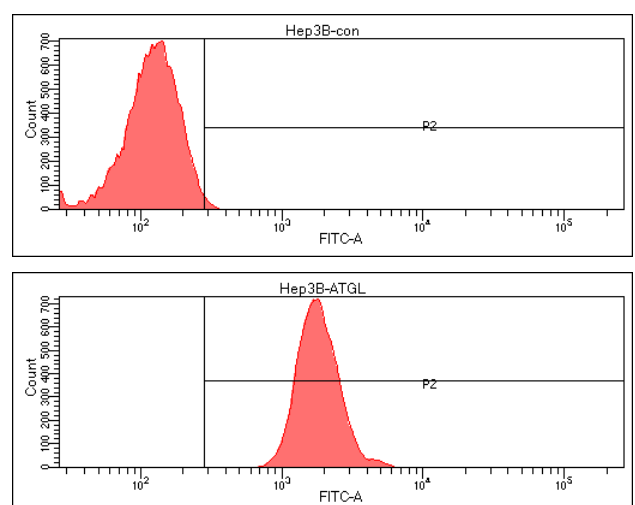
Western blot analysis

The mouse adipose tissue lysate (40ug) were 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.



Flow cytometry

Flow cytometry analysis of ATGL in Hep3B cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).

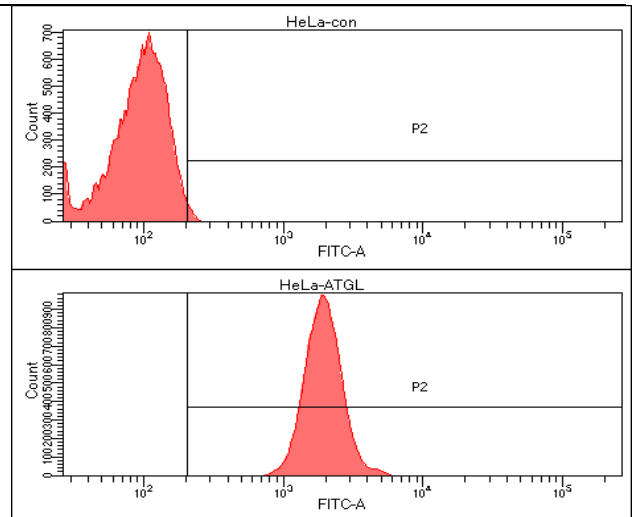


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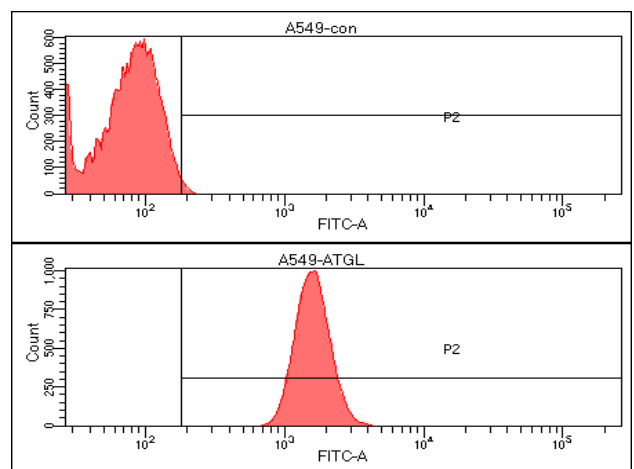
Flow cytometry

Flow cytometry analysis of ATGL in HeLa cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



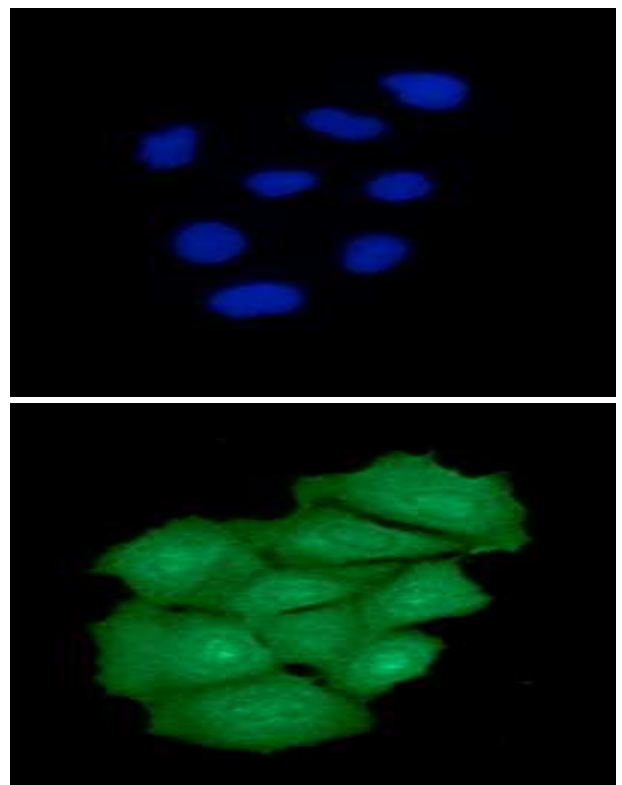
Flow cytometry

Flow cytometry analysis of ATGL in A549 cell line, staining at 2-5ug for 1×10^6 cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



ICC/IF analysis

ICC/IF analysis of ATGL in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ATGL antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

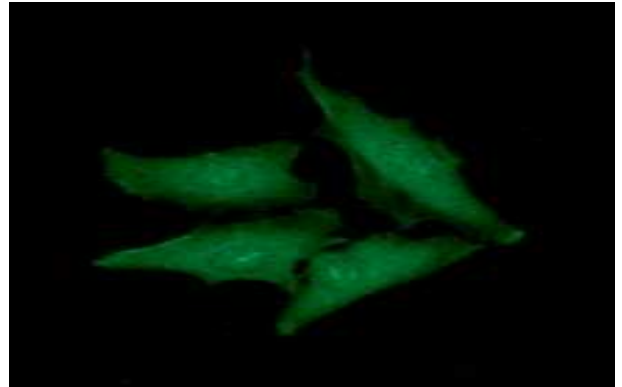
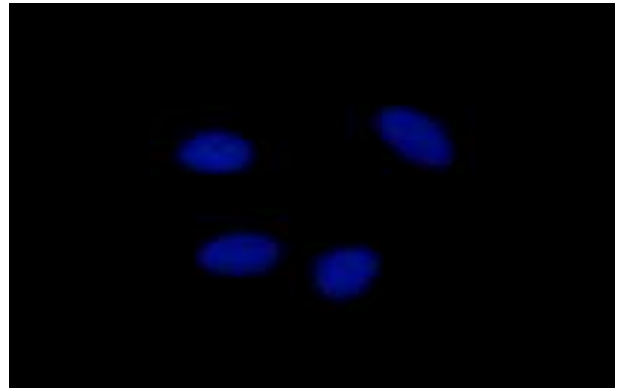


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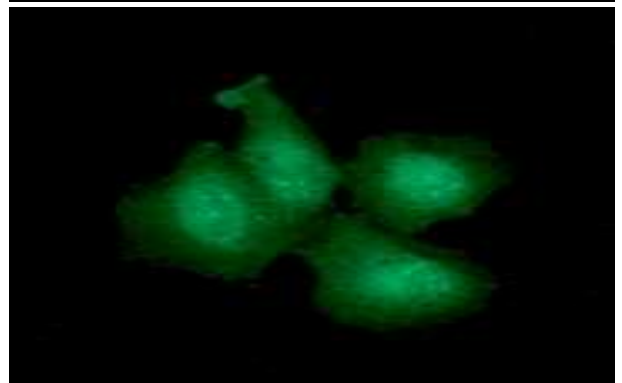
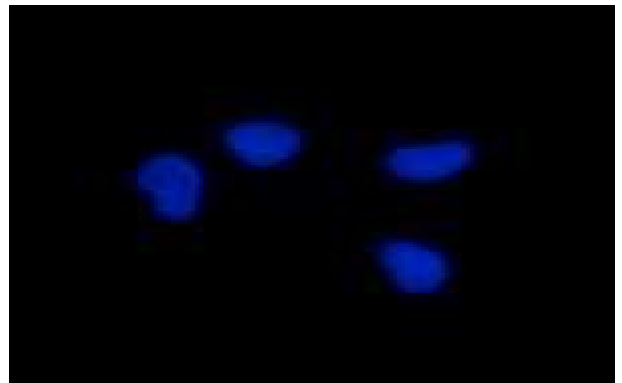
ICC/IF analysis

ICC/IF analysis of ATGL in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ATGL antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



ICC/IF analysis

ICC/IF analysis of ATGL in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human ATGL antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



- 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.

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