

Mouse anti-Human ATGL Monoclonal Antibody | anti-ATGL antibody

ATGL antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48238	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

ATGL; Monoclonal Antibody; ATGL antibody; Adipose triglyceride lipase; Calcium-independent phospholipase A2; Desnutrin IPLA2-zeta; Pigment epithelium-derived factor; TTS2.2; Transport-secretion protein 2; TTS2; Patatin-like phospholipase domain-containing protein 2; PNPLA2; anti-ATGL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b kappa
Clone Number	AT18E6
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	504
Applicable Applications for anti-ATGL antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	Recombinant human ATGL (30-504aa) purified from E. coli
Preparation and 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.

IMAGES



FCM/FACS (Flow Cytometry)

a. Flow cytometry analysis of ATGL in Hep3B cells. The cell was stained with AAA48238 at 2-5ug for 1x10⁶cells (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).b. Flow cytometry analysis of ATGL in HeLa cells. The cell was stained with AAA48238 at 2-5ug for 1x10⁶cells (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).



IF (Immunofluorescence)

a. 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).b. 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).c. 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).



WB (Western Blot)

a. 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. b. 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.

ADDITIONAL INFORMATION

Related Product Information for anti-ATGL antibody	Adipose triglyceride lipase (ATGL) is a 504 amino acid protein that is highly expressed in mouse and human adipose tissue. ATGL is 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.
Product Categories/Family for anti-ATGL antibody	Cardiovascular
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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32698724
NCBI GeneID	57104
NCBI Accession #	NP_065109
NCBI GenBank Nucleotide #	NM_020376.3
UniProt Accession #	Q96AD5; O60643; Q5EFF5; Q6XYE5; Q96ET6; Q9NQ61; Q9NQ62
NCBI Official Full Name	patatin-like phospholipase domain-containing protein 2
NCBI Official Synonym Full Names	patatin like phospholipase domain containing 2
NCBI Official Symbol	PNPLA2
NCBI Official Synonym Symbols	ATGL; TTS2; PEDF-R; FP17548; TTS-2.2; iPLA2zeta; 1110001C14Rik
NCBI Protein Information	patatin-like phospholipase domain-containing protein 2
UniProt Protein Name	Patatin-like phospholipase domain-containing protein 2
UniProt Gene Name	PNPLA2
UniProt Synonym Gene Names	ATGL; TTS2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.