

For Research Use Only

ATGL Polyclonal antibody

Catalog Number: 55190-1-AP

Featured Product

93 Publications



Basic Information

Catalog Number:

55190-1-AP

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_020376

GeneID (NCBI):

57104

UNIPROT ID:

Q96AD5

Full Name:

patatin-like phospholipase domain containing 2

Calculated MW:

55 kDa

Observed MW:

45-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC: 1:10-1:100

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, monkey, chicken, zebrafish, bovine, sheep

Positive Controls:

WB: mouse heart tissue, 3T3-L1 cells, A431 cells, HeLa cells, human heart tissue, mouse liver tissue, mouse testis tissue, rat heart tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue, rat liver tissue

IP: mouse testis tissue,

IF/ICC: A431 cells,

Background Information

ATGL, also named as PNPLA2, TTS2 and Desnutrin, catalyzes the initial step in triglyceride hydrolysis in adipocyte and non-adipocyte lipid droplets. It also has acylglycerol transacylase activity. ATGL may act coordinately with LIPE/HLS within the lipolytic cascade. It regulates adiposome size and may be involved in the degradation of adiposomes. May play an important role in energy homeostasis. Defects in ATGL are the cause of neutral lipid storage disease with myopathy (NLSMD). This antibody is specific to ATGL.

Notable Publications

Author	Pubmed ID	Journal	Application
Binbin Zhou	36169888	Mol Neurobiol	WB
Yuzuru Iizuka	34588391	Exp Anim	WB
Zhao Yang	36120828	J Biochem Mol Toxicol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

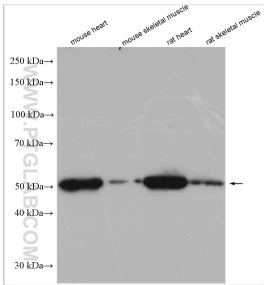
T: 4006900926

E: Proteintech-CN@ptglab.com

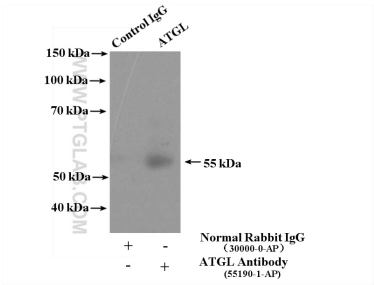
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

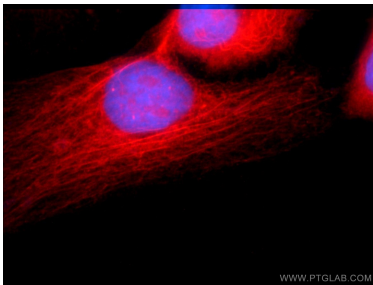
Selected Validation Data



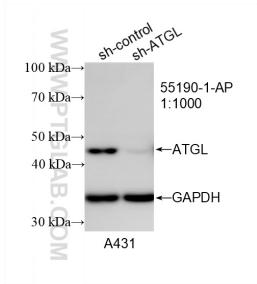
Various lysates were subjected to SDS PAGE followed by western blot with 55190-1-AP (ATGL antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



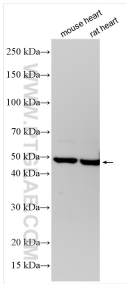
IP result of anti-ATGL (IP:55190-1-AP, 4ug; Detection:55190-1-AP 1:500) with mouse testis tissue lysate 4000ug.



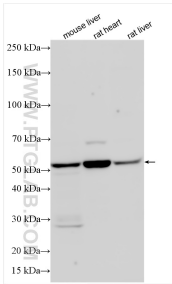
Immunofluorescent analysis of A431 cells using 55190-1-AP (ATGL antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.



WB result of ATGL antibody (55190-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATGL transfected A431 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 55190-1-AP (ATGL antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 55190-1-AP (ATGL antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.