
Adipose Triglyceride Lipase Rabbit pAb

Catalog Number: bs-3831R

Target Protein: Adipose Triglyceride Lipase

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (3ug/Test)

Reactivity: Human, Mouse (predicted:Rat)

Predicted MW: 55 kDa

Entrez Gene: 57104

Swiss Prot: Q96AD5

Source: KLH conjugated synthetic peptide derived from human ATGL: 401-504/504.

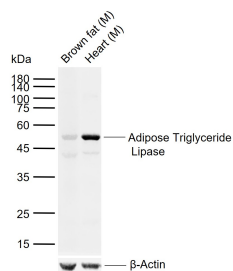
Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

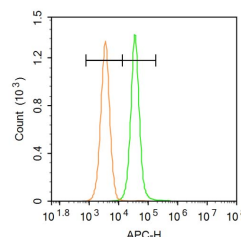
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Adipose triglyceride lipase (ATGL) may function as a lipase and play a role in the adaptive response to a low energy state, such as fasting, by providing fatty acids to other tissues for oxidation. In addition, decreased expression of desnutrin in obesity models suggests its possible contribution to the pathophysiology of obesity. ATGL catalyzes the initial step in triglyceride hydrolysis in mammalian adipose tissue. ATGL contains a patatin domain common to plant acyl hydrolases. ATGL is highly expressed in adipose tissue of mice and humans. It exhibits high substrate specificity for triacylglycerol and is associated with lipid droplets. Inhibition of ATGL markedly decreases total adipose acyl hydrolase activity. Thus, ATGL and HSL coordinately catabolize stored triglycerides in adipose tissue of mammals.

VALIDATION IMAGES



Sample: Lane 1: Mouse Brown fat tissue lysates Lane 2: Mouse Heart tissue lysates Primary: Anti-Adipose Triglyceride Lipase (bs-3831R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 55 kDa Observed band size: 52 kDa



Blank control: A431. Primary Antibody (green line): Rabbit Anti-Adipose Triglyceride Lipase antibody (bs-3831R) Dilution: $3\mu\text{g}/10^6$ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: $3\mu\text{g}/\text{test}$. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

PRODUCT SPECIFIC PUBLICATIONS

[IF=2.532] Chenming Zhang. et al. Transcriptomics and proteomics analysis to explore the mechanism of Yishen Tongluo formula repairing sperm DNA damage in rats. ANDROLOGIA. 2022 Sep;;e14582 WB ; Rat . 36068021

[IF=2.742] Liu, Yanrong. et al. Cinnamaldehyde affects lipid droplets metabolism after adipogenic differentiation of C2C12 cells. MOL BIOL REP. 2022 Dec;;1-7 WB ; Mouse . 36538173