

bs-3831R**[Primary Antibody]****Adipose Triglyceride Lipase Rabbit pAb****Bioss**
ANTIBODIES

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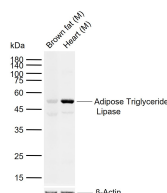
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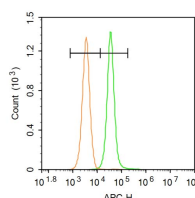
400-901-9800

DATASHEET

Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) Flow-Cyt (3ug/Test)
Clonality: Polyclonal		
GeneID: 57104	SWISS: Q96AD5	Reactivity: Human, Mouse (predicted: Rat)
Target: Adipose Triglyceride Lipase		
Immunogen: KLH conjugated synthetic peptide derived from human ATGL: 401-504/504.		
Purification: affinity purified by Protein A		Predicted MW.: 55 kDa
Concentration: 1mg/ml		Subcellular Location: Cell membrane
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: 3μg /10⁶ cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody: Goat anti-rabbit IgG-AF647 Dilution: 3μg /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.

SELECTED CITATIONS

- **[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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

C2C12 cells. MOL BIOL REP. 2022 Dec;;1-7 WB ;Mouse. 36538173