bs-10779R **[Primary Antibody]**

Perilipin 1 Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5346 **SWISS:** O60240

Target: Perilipin 1

Immunogen: KLH conjugated synthetic peptide derived from human Perilipin-1: 331-430/522.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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: Perilipins, members of the PAT protein family (named after lipid droplet proteins Perilipin, Adipophilin, and TIP47) are found exclusively at the surface of lipid droplets in adipocytes and steroidogenic cells. They have been suggested to function as regulators of lipolysis and triacylglycerol storage within adipose tissue. Four distinct isoforms ranging from perilipin A (57 kDa) to perilipin D (26 kDa) have been identified and they share an identical amino terminal sequences, and contain 2–6 consensus protein kinase A (PKA) phosphorylation sites. Perilipin C and D have been detected only in steroidogenic cells. Perilipin A is the most abundant form on the lipid droplets of adipocytes. The phosphorylation of perilipin by PKA, which is accompanied by the phosphorylation and translocation of hormone-sensitive lipase from the cytosol to the lipid droplets, promotes lipolysis. There is evidence for the presence of perilipin A in atheroma plaques suggesting that the protein may be involved in the development of therosclerosis by controlling as in adipocytes the hydrolysis of stored lipids.

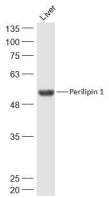
Applications: **WB** (1:500-2000)
Flow-Cyt (5μg/Test)

Reactivity: Mouse, Rat (predicted: Human, Pig, Sheep, Cow)

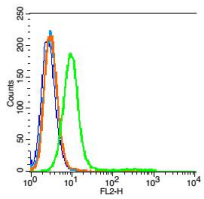
Predicted MW.: 57 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Liver (Mouse) Lysate at 40 ug Primary: Anti-Perilipin 1 (bs-10779R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Blank control(blue):RSC96 Cells (fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice). Primary Antibody:Rabbit Anti- Perilipin 1 antibody(bs-10779R), Dilution: 5μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

SELECTED CITATIONS

- **[IF=7.9]** Fei Ding. et al. Adipocyte-specific FAK deletion promotes pancreatic β-cell apoptosis via adipose inflammatory

response to exacerbate diabetes mellitus. CLIN TRANSL MED. 2024 Jun;14(7):e1742 Other ;Mouse. 38925910

- **[IF=4.1]** Pınar Tayfur. et al.Voluntary physical activity suppresses adipocyte hypertrophy through the activation of cGMP mediated pathway in a fructose-induced metabolic syndrome model in rat. European Journal of Nutrition.2025 Feb 15;64(2):91. IHC ;Human. 39954126
- **[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