bs-3789R **[Primary Antibody]**

Perilipin A Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5346 **SWISS:** O60240

Target: Perilipin A

Immunogen: KLH conjugated synthetic peptide derived from human Perilipin-1: 85-180/522.

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.

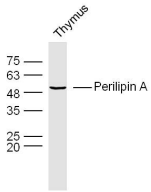
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

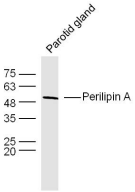
Predicted MW.: 57 kDa

Subcellular Location: Cytoplasm

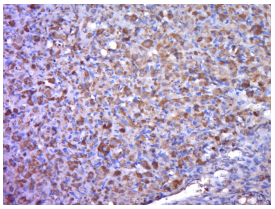
VALIDATION IMAGES



Sample: Thymus (Mouse) Lysate at 40 ug Primary: Anti-Perilipin A (bs-3789R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Sample:Parotid gland (Mouse) Lysate at 40 ug Primary: Anti-Perilipin A (bs-3789R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 57 kD Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Perilipin A) Polyclonal Antibody, Unconjugated (bs-3789R) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody (sp-0023) for 20 minutes and DAB staining.

SELECTED CITATIONS

- **[IF=5.9]** Cheng Yun-Mou. et al. An immortal porcine preadipocyte cell strain for efficient production of cell-cultured fat.

COMMUN BIOL. 2023 Nov;6(1):1-13 WB ;Pig. 38007598

- **[IF=4.05]** Stelmanska, Ewa, Sylwia Szrok, and Julian Swierczynski. "Progesterone induced down regulation of hormone sensitive lipase (Lipe) and up-regulation of G0/G1 switch 2 (G0s2) genes expression in inguinal adipose tissue of female rats is reflected by diminished rate of lipolysis." The Journal of Steroid Biochemistry and Molecular Biology (2014). WB ;="Rat". 25448749