bs-6765R **[Primary Antibody]**

Perilipin A+B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5346 **SWISS:** O60240

Target: Perilipin A+B

Immunogen: KLH conjugated synthetic peptide derived from human Perilipin A+B: Mixed peptides.

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.

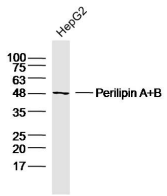
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (0.2ug/Test)

Reactivity: Human, Mouse (predicted: Sheep, Chicken, Dog)

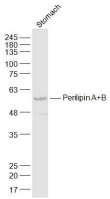
Predicted MW.: 54-56 kDa

Subcellular Location: Cytoplasm

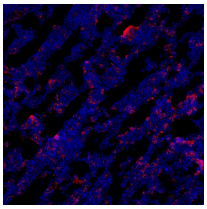
VALIDATION IMAGES



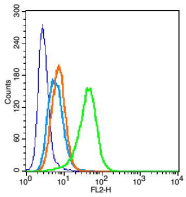
Sample: HepG2 Cell (Human) Lysate at 30 ug Primary: Anti-Perilipin A+B (bs-6765R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54-56kD Observed band size: 50kD



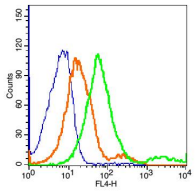
Sample: Stomach (Mouse) Lysate at 40 ug Primary: Anti-Perilipin A+B (bs-6765R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 54-56 kD Observed band size: 56 kD



This image was generously provided by James Fox, PhD. at the University of York. Immunostaining of perilipin-positive adipocytes (red) using Rabbit Anti-Perilipin A+B Polyclonal Antibody (bs-6765R) in bone marrow of IL-7cre Rosa26-EYFP mice with DAPI (blue) nuclear counterstain.



Blank control: U937 (fixed with 2%



Blank control: MCF7(blue). Primary Antibody:

paraformaldehyde (10 min)). Primary Antibody:Rabbit Anti- Perilipin A+B antibody(bs-6765R), Dilution: 0.2µg 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.

Rabbit Anti-Perilipin A+B/AF647 Conjugated antibody (bs-6765R-AF647), Dilution: 5µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF647(orange) ,used under the same conditions.

SELECTED CITATIONS

- **[IF=5.37]** James, Sally, et al. "Multiparameter Analysis of Human Bone Marrow Stromal Cells Identifies Distinct Immunomodulatory and Differentiation-Competent Subtypes." Stem cell reports 4.6 (2015): 1004-1015. Other ;="Human". 26070611
- **[IF=4.357]** Li et al. Morusin suppresses breast cancer cell growth in vitro and in vivo through C/EBPβ and PPARγ mediated lipoapoptosis. (2015) J.Exp.Clin.Cancer.Res. 34:137 WB ;Human. 26538209