bs-0759R **[Primary Antibody]**

Lpin1 protein Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 14245 **SWISS:** Q91ZP3

Target: Lpin1 protein

Immunogen: KLH conjugated synthetic peptide derived from mouse Lpin1 protein: 201-300/924.

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: Lipin 1 is a member of the Lipin family of nuclear proteins. This family contains three members: Lipin 1, Lipin 2 and Lipin 3, all of which contain a nuclear signal sequence, a highly conserved amino-terminal (NLIP) domain and a carboxy-terminal (CLIP) domain. LPIN1 (Lipin 1) is crucial for normal adipose tissue development and metabolism.
LPIN1 selectively activates a subset of PGC1 alpha target pathways, including fatty acid oxidation and mitochondrial oxidative phosphorylation by inducing expression of the nuclear receptor PPARalpha. LPIN1 also inactivates the lipogenic program and suppresses circulating lipid levels. An abundance of LPIN1 promotes fat accumulation and insulin sensitivity, whereas a deficiency in LPIN1 may deter normal adipose tissue development, resulting in insulin resistance and lipodystrophy, a heterogeneous group of disorders characterized by loss of body fat, fatty liver, hypertriglyceridemia and insulin resistance.

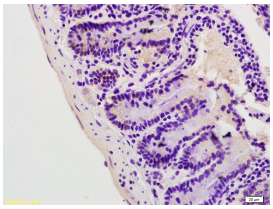
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Mouse, Rat

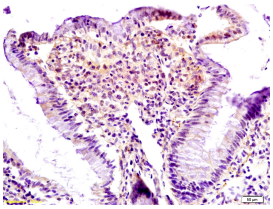
Predicted MW.: 102 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Tissue/cell: mouse colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Lpin1 Polyclonal Antibody, Unconjugated(bs-0759R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Lpin1 Polyclonal Antibody, Unconjugated(bs-0759R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

SELECTED CITATIONS

- **[IF=14.3]** Mengni Bao. et al. PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline-Induced Cardiotoxicity. ADV SCI. 2024 Jun;:2401945 IF ;Mouse. 38935046

- **[IF=14.3]** Mengni Bao. et al.PICALM Regulating the Generation of Amyloid β-Peptide to Promote Anthracycline - Induced Cardiotoxicity.adv sci (weinh).2024 Aug;11(32):e2401945. IF ;Mouse. 38935046
- **[IF=5.396]** Zhiyun Hao. et al. MicroRNA-432 inhibits milk fat synthesis by targeting SCD and LPL in ovine mammary epithelial cells. Food Funct. 2021 Aug;: WB ;Sheep. 10.1039/D1FO01260F