
Lipin 1 Rabbit pAb

Catalog Number: bs-7533R

Target Protein: Lipin 1

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: IHC-P (1:100-500), IHC-F (1:100-500), IF (1:100-500), ELISA (1:5000-10000)

Reactivity: Rat (predicted:Human, Mouse, Rabbit, Pig, Sheep, Cow, Dog, Goose, Chimpanzee)

Predicted MW: 99 kDa

Entrez Gene: 23175

Swiss Prot: Q14693

Source: KLH conjugated synthetic peptide derived from human Lipin 1: 501-600/890.

Purification: affinity purified by Protein A

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.

PRODUCT SPECIFIC PUBLICATIONS

[IF=3.231] Pan-Pan Guo. et al. Overexpression of DGAT2 Regulates the Differentiation of Bovine Preadipocytes. ANIMALS. 2023 Jan;13(7):1195 WB ; Bovine . 37048451