bs-12954R

[Primary Antibody]

phospho-ACACA (Ser80) Rabbit pAb



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- DATASHEET -

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GenelD: 32 **SWISS:** Q13085

Target: ACACA (Ser80)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human

Acetyl Coenzyme A Carboxylase alpha around the phosphorylation

site of Ser80: SM(p-S)GL.

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: Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the

system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. There are two ACC forms, alpha and beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tissues. The enzyme is under long term control at the transcriptional and translational levels and under short term regulation by the phosphorylation/dephosphorylation of targeted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multiple alternatively spliced transcript variants divergent in the 5' sequence and encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008].

Applications: ELISA (1:5000-10000)

Reactivity: Human (predicted: Mouse,

Rat)

Predicted MW.: 265 kDa

Subcellular Location: Cytoplasm

— SELECTED CITATIONS –

- [IF=7.5] Jing Zhang. et al. Influence of coated cobalamin on lactation performance, nutrient digestion, and proteins related to mammary epithelial cell proliferation and milk fatty acid synthesis in dairy cows. ANIM NUTR. 2025 Aug;: WB ;Bovine. 10.1016/j.aninu.2025.06.006
- [IF=6.3] Jing Zhang. et al. Dietary supplementation of sodium butyrate enhances lactation performance by promoting nutrient digestion and mammary gland development in dairy cows. ANIM NUTR. 2023 Sep;: WB; Bovine. 10.1016/j.aninu.2023.08.008