

Anti-Phospho-Acetyl Coenzyme A Carboxylase (S79) Antibody [JE63-95]

HA721714



| | |
|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat |
| Applications: | WB |
| Molecular Wt: | Predicted band size: 265 kDa |
| Clone number: | JE63-95 |

Description: Acetyl-CoA carboxylase 1 also known as ACC-alpha or ACCα is an enzyme that in humans is encoded by the ACACA gene. Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme 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.

Immunogen: Synthetic phosphopeptide corresponding to residues surrounding Ser79 of Mouse acetyl-CoA carboxylase protein.

Positive control: NIH/3T3 cell lysate, NIH/3T3 treated with 0.5μM Oligomycin for 30 minutes cell lysate.

Subcellular location: Cytoplasm, cytosol.

Database links: SwissProt: Q13085 Human | Q5SWU9 Mouse | P11497 Rat

Recommended Dilutions:

WB 1:2,000

Storage Buffer: 1×TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

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Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

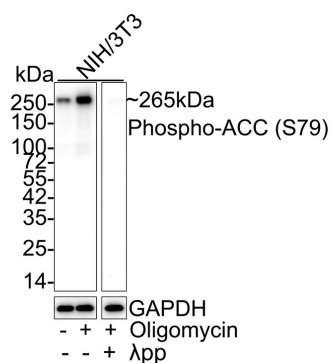


Fig1: Western blot analysis of Phospho-Acetyl Coenzyme A Carboxylase (S79) on different lysates with Rabbit anti-Phospho-Acetyl Coenzyme A Carboxylase (S79) antibody (HA721714) at 1/2,000 dilution.

Lane 1: NIH/3T3 cell lysate

Lane 2: NIH/3T3 treated with 0.5μM Oligomycin for 30 minutes cell lysate

Lane 3: NIH/3T3 treated with 0.5μM Oligomycin for 30 minutes then treated with λpp for 1 hour cell lysate

Lysates/proteins at 20 μg/Lane.

Predicted band size: 265 kDa

Observed band size: 265 kDa

Exposure time: 1 minutes 14 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721714) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yeudall S et al. Macrophage acetyl-CoA carboxylase regulates acute inflammation through control of glucose and lipid metabolism. Sci Adv. 2022 Nov
2. Bates J et al. Acetyl-CoA carboxylase inhibition disrupts metabolic reprogramming during hepatic stellate cell activation. J Hepatol. 2020 Oct

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