

ACC α (K86) polyclonal antibody

Catalog: BS1377

Host: Rabbit

Reactivity: Human, Mouse, Rat, Pig

Background:

Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the ratelimiting step in fatty acid synthesis. Exercise diminishes the activity of acetyl-CoA carboxylase in human muscle. ACC α (ACC1) is the rate-limiting enzyme in the biogenesis of long-chain fatty acids, and ACC β (ACC2) may control mitochondrial fatty acid oxidation. These two isoforms of ACC control the amount of fatty acids in the cells. The catalytic function of ACC α is regulated by phosphorylation (inactive) and dephosphorylation (active) of targeted Serine residues and by allosteric transformation by citrate or palmitoyl-CoA, which serve as the short-term regulatory mechanism of the enzyme. The gene encoding ACC α , which maps to human chromosome 17, encodes the 265 kDa α form of ACC, which is the major ACC in lipogenic tissues. The catalytic core of ACC β is homologous to that of ACC α except for an additional peptide of about 150 amino acids at the N-terminus.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 265 kDa

Swiss-Prot:

Q13085

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

Storage&Stability:

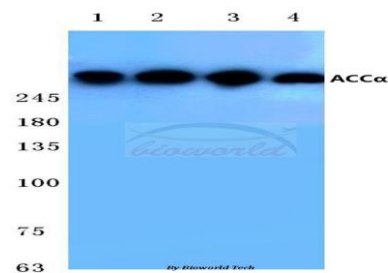
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

Specificity:

ACC α (H74) polyclonal antibody detects endogenous levels of ACC α protein.

DATA:



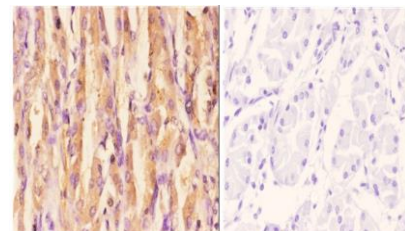
Western blot (WB) analysis of ACC α (K86) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate

Lane2:Jurkat cell lysate

Lane3:NIH-3T3 cell lysate

Lane4:PC12 cell lysate



BS1377
Lot C136131

Immunohistochemistry (IHC) analyzes of ACC α (K86) pAb in paraffin-embedded human stomach carcinoma tissue at 1:50, showing cell membrane, cytoplasmic staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.

Note:

For research use only, not for use in diagnostic procedure.

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