

## ACC $\alpha$ (K86) polyclonal antibody

Catalog: BCP00132

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 rate-limiting step in fatty acid synthesis. Exercise diminishes the activity of acetyl-CoA carboxylase in human muscle. ACC $\alpha$  (ACC1) is the rate-limiting enzyme in the biogenesis of long-chain fatty acids, and ACC $\beta$  (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 $\alpha$  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 $\alpha$ , which maps to human chromosome 17, encodes the 265 kDa  $\alpha$  form of ACC, which is the major ACC in lipogenic tissues. The catalytic core of ACC $\beta$  is homologous to that of ACC $\alpha$  except for an additional peptide of about 150 amino acids at the N-terminus.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### 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

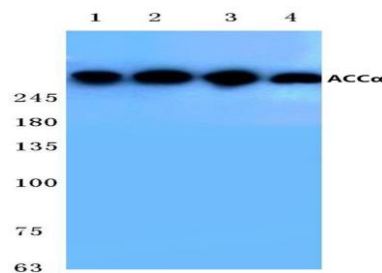
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

ACC $\alpha$  (H74) polyclonal antibody detects endogenous levels of ACC $\alpha$  protein.

### DATA:



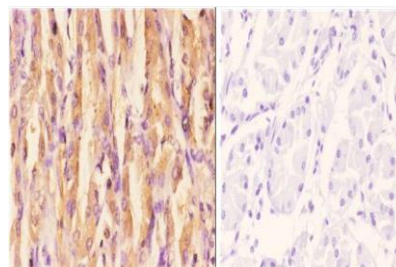
Western blot (WB) analysis of ACC $\alpha$  (K86) polyclonal antibody at 1:500 dilution

Lane1:Hela cell lysate

Lane2:Jurkat cell lysate

Lane3:NIH-3T3 cell lysate

Lane4:PC12 cell lysate



Immunohistochemistry (IHC) analyzes of ACC $\alpha$  (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.