

## ACC $\alpha$ (phospho-S80) polyclonal antibody

Catalog: BS4210

Host: Rabbit

Reactivity: Human, Mouse, Rat

### 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 biosynthesis 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:

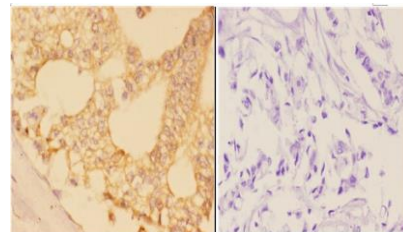
Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

### Specificity:

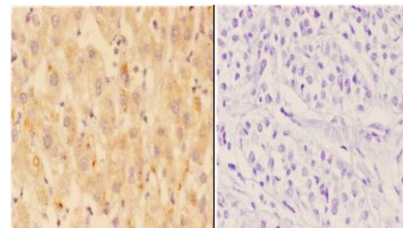
p-ACC $\alpha$  (S80) polyclonal antibody detects endogenous levels of ACC $\alpha$  protein only when phosphorylated at Ser80.

### DATA:



BS4210  
Lot CA36131

Immunohistochemistry (IHC) analyzes of ACC $\alpha$  (phospho-S80) pAb in paraffin-embedded human breast carcinoma tissue at 1:50, showing cytoplasmic staining. Negative control (the right) Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



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Immunohistochemistry (IHC) analyzes of ACC $\alpha$  (phospho-S80) pAb in paraffin-embedded human liver carcinoma tissue at 1:50, showing 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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## PRODUCT DATA SHEET

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