ACCα (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 ratelimiting step in fatty acid synthesis. Exercise diminishes the activity of acetyl- CoA carboxylase in human muscle. ACCα (ACC1) is the rate-limiting enzyme in the biogenesis of long-chain fatty acids, and ACCβ (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 ACCα 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 ACCβ is homologous to that of ACCα 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

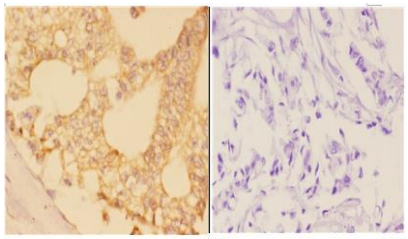
Storage&Stability:

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

Specificity:

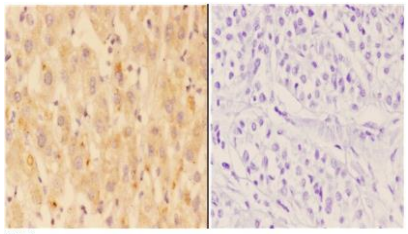
p-ACCα (S80) polyclonal antibody etects endogenous levels of ACCα protein only when phosphorylated at Ser80.

DATA:



BS4210
Lot CA36131

Immunohistochemistry (IHC) analyzes of ACCα (phospho-S80) pAb bin 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 ACCα (phospho-S80) pAb bin 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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