

ACC1 a protein

Catalog No: YD0004

Reactivity: Human

Applications: WB;SDS-PAGE

Protein Name: ACC1 a protein

Sequence: Amino acid: 1206-1370, with his-MBP tag.

Human Gene Id: 31

Human Swiss Prot

O00763/Q13085

No:

Formulation: Liquid in PBS

Source: E.coli

Dilution: WB 1:500-2000

Concentration: SDS-PAGE >90%

Storage Stability: -20°C/6 month,-80°C for long storage

Background: catalytic activity:ATP + acetyl-CoA + HCO(3)(-) = ADP + phosphate + malonyl-

CoA.,catalytic activity:ATP + biotin-carboxyl-carrier protein + CO(2) = ADP + phosphate + carboxybiotin-carboxyl-carrier protein.,cofactor:Binds 2 manganese ions per subunit.,cofactor:Biotin.,enzyme regulation:Activated by citrate. Inhibited by malonyl-CoA.,function:ACC-beta may be involved in the provision of malonyl-CoA or in the regulation of fatty acid oxidation, rather than fatty acid biosynthesis. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.,pathway:Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.,similarity:Contains 1 ATP-grasp domain.,similarity:Contains 1 biotin carboxylation domain.,similarity:Contains 1

biotinyl-binding domain.,similarity:Contains 1 carboxyltransferase domain.,subcellular location:May associate with membranes.,tissue

specificity:Predominantly expressed in the heart, skeletal muscles and liver.,

Function: fatty acid metabolic process, fatty acid biosynthetic process, lipid biosynthetic

1/2



process, regulation of cellular ketone metabolic process, organic acid biosynthetic process, regulation of lipid metabolic process, regulation of fatty acid oxidation, carboxylic acid biosynthetic process,

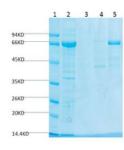
Subcellular Location :

Mitochondrion.

Expression:

Widely expressed with highest levels in heart, skeletal muscle, liver, adipose tissue, mammary gland, adrenal gland and colon (PubMed:9099716). Isoform 3 is expressed in skeletal muscle, adipose tissue and liver (at protein level) (PubMed:19190759). Isoform 3 is detected at high levels in adipose tissue with lower levels in heart, liver, skeletal muscle and testis (PubMed:19190759).

Products Images



1: Marker 2: F104穿透 3: 決股液1 4: 洗股液2 5: 洗股液3 分子量: 66KD 缓冲液: 1xPBS (含咪唑洗脱液和甘油)