

产品名称: ACC α (phospho Ser80) Rabbit Polyclonal Antibody
产品货号: APRab04200



产品概述 (Summary)

产品名称 (Production Name)	ACC α (phospho Ser80) Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Phosphorylated
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	ACACA
别名 (Alternative Names)	ACACA; ACAC; ACC1; ACCA; Acetyl-CoA carboxylase 1; ACC1; ACC-alpha
基因 ID (Gene ID)	31.0
蛋白 ID (SwissProt ID)	Q13085.The antiserum was produced against synthesized peptide derived from human ACC1 around the phosphorylation site of Ser80. AA range:46-95

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	265kDa

研究背景 (Background)

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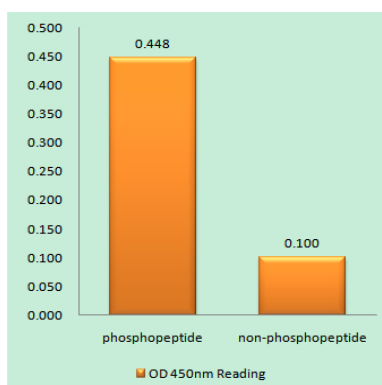


Acetyl-CoA carboxylase (ACC) is a complex multifunctional enzyme system. ACC is a biotin-containing enzyme which catalyzes the carboxylation of acetyl-CoA to malonyl-CoA, the rate-limiting step in fatty acid synthesis. There are two ACC forms, alpha and beta, encoded by two different genes. ACC-alpha is highly enriched in lipogenic tissues. The enzyme is under long term control at the transcriptional and translational levels and under short term regulation by the phosphorylation/dephosphorylation of targeted serine residues and by allosteric transformation by citrate or palmitoyl-CoA. Multiple alternatively spliced transcript variants divergent in the 5' sequence and encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008], catalytic activity: ATP + acetyl-CoA + HCO₃⁽⁻⁾ = ADP + phosphate + malonyl-CoA, catalytic activity: ATP + biotin-carboxyl-carrier protein + CO₂ = ADP + phosphate + carboxybiotin-carboxyl-carrier protein., cofactor: Binds 2 manganese ions per subunit., cofactor: Biotin., disease: Defects in ACACA are a cause of ACACA deficiency [MIM:200350]; also called ACAC or ACC deficiency. ACACA deficiency is an inborn error of de novo fatty acid synthesis. The disorder is associated with severe brain damage, persistent myopathy and poor growth., enzyme regulation: By phosphorylation., function: Catalyzes the rate-limiting reaction in the biogenesis of long-chain fatty acids. Carries out three functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase., online information: Acetyl-CoA carboxylase entry, pathway: Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1., PTM: Phosphorylation on Ser-1263 is required for interaction with BRCA1., similarity: Contains 1 ATP-grasp domain., similarity: Contains 1 biotin carboxylation domain., similarity: Contains 1 biotinyl-binding domain., similarity: Contains 1 carboxyltransferase domain., subunit: Interacts in its inactive phosphorylated form with the BRCT domains of BRCA1 which prevents ACACA dephosphorylation and inhibits lipid synthesis., tissue specificity: Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.,

研究领域 (Research Area)

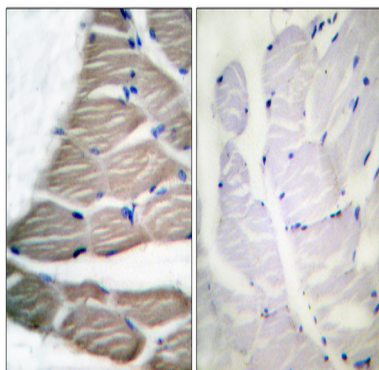
Fatty acid biosynthesis; Pyruvate metabolism; Propanoate metabolism; Insulin_Receptor;

图片 (Image Data)



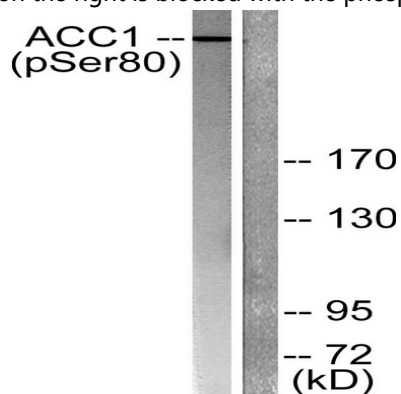
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using ACC1 (Phospho-Ser80) Antibody

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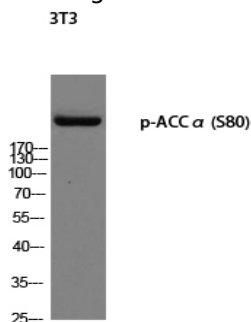
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ACC1 (Phospho-Ser80) Antibody.

The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from K562 cells treated with Insulin 0.01U/ml 15 ', using ACC1 (Phospho-Ser80)

Antibody. The lane on the right is blocked with the phospho peptide.



Western blot analysis of 3T3 using p-ACC α (S80) antibody. Antibody was diluted at 1:1000

注意事项 (Note)

For research use only .