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Rabbit Anti-phospho-Acetyl Coenzyme A Carboxylase beta (Ser220) antibody

SL12952R

Product Name:	phospho-Acetyl Coenzyme A Carboxylase beta (Ser220)
Chinese Name:	磷酸化乙酰辅酶A羧化酶抗体
Alias:	Acetyl Coenzyme A Carboxylase beta (phospho S221); Acetyl Coenzyme A Carboxylase beta (phospho Ser221); p-Acetyl Coenzyme A Carboxylase beta (phospho S221); Acetyl Coenzyme A Carboxylase; ACAS2; AceCS; Acetate CoA ligase; Acetyl CoA synthetase; Acetyl coenzyme A synthetase cytoplasmic; Acetyl-CoA synthetase; ACS; ACSS2; Acyl activating enzyme; Acyl CoA synthetase short chain family member 2; EC 6.2.1.1; MYH7B; ACACB; ACC beta; ACC2; ACCB; Acetyl CoA carboxylase 2; Acetyl CoA carboxylase beta; Biotin carboxylase; COA2; HFA1; ACACB_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	265kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Acetyl Coenzyme A Carboxylase beta around the phosphorylation site of Ser220:RP(p-S)M
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized

	antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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]. **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. **Subunit:** Monomer, homodimer, and homotetramer. Can form filamentous polymers. Interacts with MID1IP1; interaction with MID1IP1 promotes oligomerization and increases its activity. **Subcellular Location:** Endomembrane system. Note=May associate with membranes. **Tissue Specificity:** Predominantly expressed in the heart, skeletal muscles and liver. **Similarity:** Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain. **SWISS:** O00763 **Gene ID:** 32 **Database links:** Entrez Gene: 31Human

	Entrez Gene: 32Human Entrez Gene: 100705Mouse Entrez Gene: 107476Mouse Entrez Gene: 116719Rat Entrez Gene: 60581Rat Omim: 200350Human Omim: 601557Human SwissProt: O00763Human SwissProt: Q13085Human SwissProt: Q5SWU9Mouse SwissProt: O70151Rat SwissProt: P11497Rat Unigene: 160556Human Unigene: 234898Human Unigene: 44372Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.