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Phospho-ACC(S79) Antibody

Rabbit mAb
Catalog # AP92816

Product Information

Application	WB
Primary Accession	Q13085
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	ACAC; ACACA; ACACB; ACC alpha; ACC; ACC beta; ACC1; ACC2; ACCA; ACCB; Acetyl CoA carboxylase 1; Acetyl CoA carboxylase 2;COA1; COA2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	265554

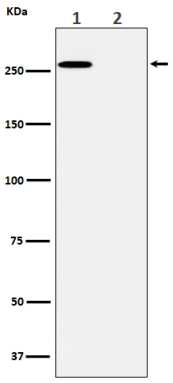
Additional Information

Dilution	WB 1:500~1:2000
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Phospho-ACC(S79)
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Protein Information

Name	ACACA (HGNC:84)
Synonyms	ACAC, ACC1, ACCA
Function	Cytosolic enzyme that catalyzes the carboxylation of acetyl- CoA to malonyl-CoA, the first and rate-limiting step of de novo fatty acid biosynthesis (PubMed:20457939, PubMed:20952656, PubMed:29899443). This is a 2 steps reaction starting with the ATP-dependent carboxylation of the biotin carried by the biotin carboxyl carrier (BCC) domain followed by the transfer of the carboxyl group from carboxylated biotin to acetyl-CoA (PubMed:20457939, PubMed:20952656, PubMed:29899443).
Cellular Location	Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q5SWU9}
Tissue Location	Expressed in brain, placenta, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver

Images



Western blot analysis of Phospho-ACC(S79) expression in (1) A431 cell lysate; (2) A431 cell treated with lambda phosphatase lysate.