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KD-Validated Anti-ACACA Rabbit Polyclonal Antibody

Rabbit polyclonal antibody
Catalog # AGI2142

Product Information

Application	WB
Primary Accession	Q13085
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	265554
Gene Name	ACACA
Aliases	ACACA; Acetyl-CoA Carboxylase Alpha; ACC-Alpha; ACC1; ACCA; Acetyl-Coenzyme A Carboxylase Alpha; Acetyl-CoA Carboxylase 1; ACACalpha; ACCalpha; Acac1; HACC1; ACAC; ACC; EC 6.4.1.2; ACACAD
Immunogen	A synthesized peptide derived from human ACC alpha

Additional Information

Gene ID	31
Other Names	Acetyl-CoA carboxylase 1, ACC1, 6.4.1.2, Acetyl-Coenzyme A carboxylase alpha, ACC-alpha, ACACA (HGNC:84), ACAC, ACC1, ACCA

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.