ARG59563
anti-Acetyl CoA carboxylase 1 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Acetyl CoA carboxylase 1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Acetyl-CoA Carboxylase Alpha
Species	Human
Immunogen	Synthetic peptide of Human Acetyl CoA carboxylase 1.
Conjugation	Un-conjugated
Alternate Names	ACC; ACACAD; Acetyl-CoA carboxylase 1; ACAC; EC 6.4.1.2; ACCA; EC 6.3.4.14; ACC-alpha; ACC1

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
IHC-P	1:50 - 1:200
IP	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	C6, HeLa and C2C12.
Observed Size	240 kDa

Properties

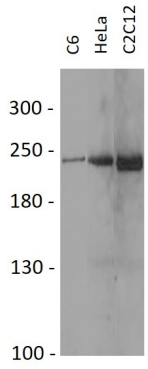
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	ACACA
Gene Full Name	acetyl-CoA carboxylase alpha
Background	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	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. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Metabolism antibody; Signaling Transduction antibody; AMPK-ACC pathway antibody
Calculated Mw	266 kDa
PTM	Phosphorylation on Ser-1263 is required for interaction with BRCA1. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG59563 anti-Acetyl CoA carboxylase 1 antibody WB image

Western blot: 25 µg of C6, HeLa and C2C12 cell lysates stained with ARG59563 anti-Acetyl CoA carboxylase 1 antibody at 1:1000 dilution.