

Datasheet for ABIN7258506

anti-Acetyl-CoA Carboxylase alpha antibody

4 Images

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Overview

Quantity:	200 µL
Target:	Acetyl-CoA Carboxylase alpha (ACACA)
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Acetyl-CoA Carboxylase alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide of human ACACA
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	Acetyl-CoA Carboxylase alpha (ACACA)
Alternative Name:	ACACA (ACACA Products)
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

Target Details

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.

Molecular Weight: Observed_MW: 240 kDa
Calculated_MW: 257 kDa/259 kDa/265 kDa/269 kDa

Gene ID: 31

UniProt: [Q13085](#)

Pathways: [AMPK Signaling](#), [Ribonucleoside Biosynthetic Process](#), [Warburg Effect](#)

Application Details

Application Notes: WB 1:500-1:2000 IF 1:50-1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

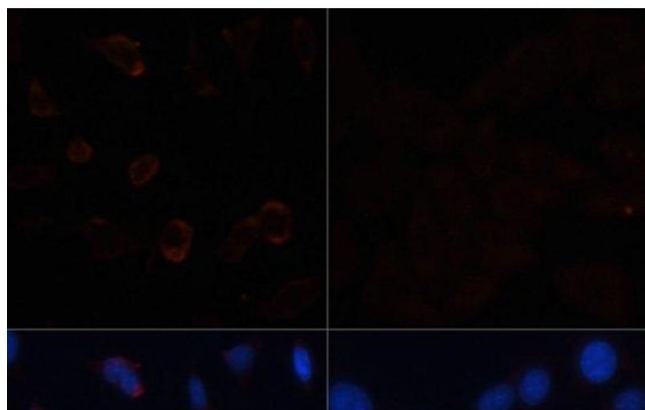
Buffer: PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

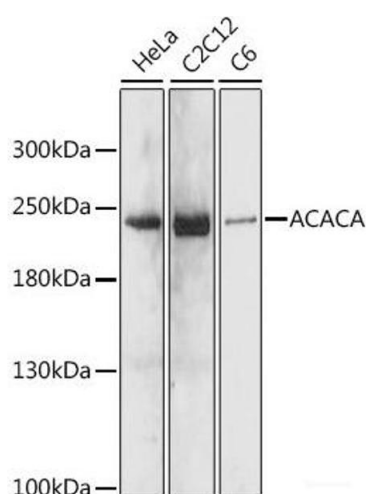
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



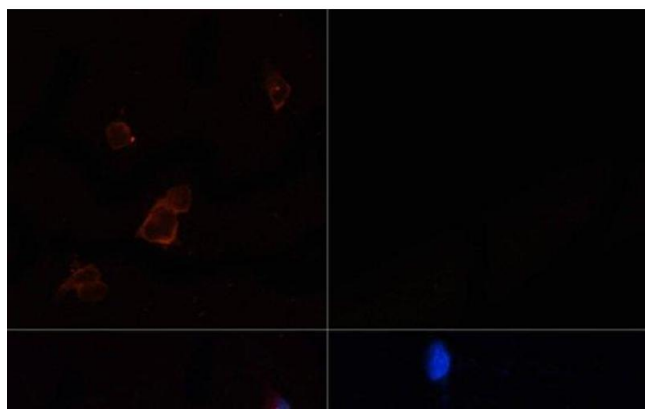
Immunofluorescence

Image 1. Immunofluorescence analysis of HeLa cells using ACACA Polyclonal Antibody at dilution of 1:100. HeLa cells were treated by Hydrogen Peroxide (2 nM) at 37 °C for 15 minutes after serum-starvation overnight(left). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines using ACACA Polyclonal Antibody at dilution of 1:1000.



Immunofluorescence

Image 3. Immunofluorescence analysis of 293T cells using ACACA Polyclonal Antibody at dilution of 1:100. 293T cells were treated by Hydrogen Peroxide (2 nM) at 37 °C for 15 minutes after serum-starvation overnight(left). Blue: DAPI for nuclear staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7258506.