abcam

Product datasheet

Anti-Acetyl Coenzyme A Carboxylase (phospho S79) antibody ab31931

2 References 2 Images

Overview

Product name Anti-Acetyl Coenzyme A Carboxylase (phospho S79) antibody

Description Rabbit polyclonal to Acetyl Coenzyme A Carboxylase (phospho S79)

Host species Rabbit

Tested applications Suitable for: WB

Species reactivity Reacts with: Human

Predicted to work with: Sheep, Goat, Chicken, Cow

Immunogen Synthetic peptide corresponding to Rat Acetyl Coenzyme A Carboxylase aa 50-150 (phospho

S79) conjugated to keyhole limpet haemocyanin.

■ Run BLAST with EXPASY ■ Run BLAST with S NCBI

Positive control RIPA lysates from mouse heart cytosol.

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term.

Storage buffer pH: 7.40

Preservative: 0.05% Sodium azide

Constituents: 0.184% Tris glycine, 30% Glycerol, 0.87% Sodium chloride

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

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Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab31931 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 265 kDa. Pretreating the blot with lambda phosphatase abolished antibody binding.

Target

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Function	Catalyzes the rate-limiting rea	action in the biogenesis of long	a-chain fatty acids. Carries out three

functions: biotin carboxyl carrier protein, biotin carboxylase and carboxyltransferase.

Tissue specificity Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed

Phosphorylation on Ser-1263 is required for interaction with BRCA1.

at low level in pulmonary tissue; not detected in the liver.

Pathway Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.

Involvement in disease Acetyl-CoA carboxylase 1 deficiency

Sequence similarities Contains 1 ATP-grasp domain.

> Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.

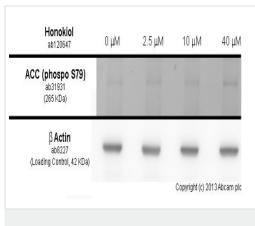
Post-translational

Cytoplasm.

modifications

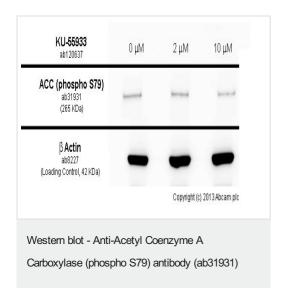
Cellular localization

Images



Western blot - Anti-Acetyl Coenzyme A Carboxylase (phospho S79) antibody (ab31931) MCF7 cells were incubated at 37°C for 6h with vehicle control (0 μM) and different concentrations of honokiol (ab120647). Increased expression of acetyl coenzyme A carboxylase (phospho S79) (ab31931) in MCF7 cells correlates with an increase in honokiol concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10µg of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with ab31931 at 1 µg/ml and ab8227 at 1 μg/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (ab97051) at 1/10000 dilution and visualised using ECL development solution.



HepG2 cells were incubated at 37° C for 60 minutes with vehicle control (0 μ M) and different concentrations of KU-55933 (**ab120637**). Decreased expression of Acetyl Coenzyme A Carboxylase (phospho S79) (ab31931) in HepG2 cells correlates with an increase in KU-55933 concentration, as described in literature.

Whole cell lysates were prepared with RIPA buffer (containing protease inhibitors and sodium orthovanadate), 10 μ g of each were loaded on the gel and the WB was run under reducing conditions. After transfer the membrane was blocked for an hour using 5% BSA before being incubated with ab31931 at 1 μ g/ml and <u>ab8227</u> at 1 μ g/ml overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP (<u>ab97051</u>) at 1/10000 dilution and visualised using ECL development solution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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