abcam

Product datasheet

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

1 References 2 图像

概述

产品名称	Anti-Acetyl Coenzyme A Carboxylase (phospho S79)**抗体**
描述	**兔多克隆抗体**to Acetyl Coenzyme A Carboxylase (phospho S79)
特异性	This antibody recognizes Acetyl Coenzyme A Carboxylase phosphorylated at Ser79.
经测试应用	**适用于:** WB
种属反应性	**与反应:** Mouse, Rat, Rabbit, Human **预测可用于:** Sheep, Goat, Chicken, Cow
免疫原	Synthetic peptide: C-HMRSSM[pS]GLHLVK conjugated to KLH, corresponding to amino acids 73-85 of Rat Acetyl Coenzyme A Carboxylase. Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	RIPA lysates from mouse heart cytosol.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
存储溶液	Preservative: 0.05% Sodium Azide. Constituents: 30% Glycerol, 0.15M Sodium chloride, 0.1M Tris glycine. pH 7.4.
纯度	Protein A purified
克隆	**多克隆**
同种型	IgG

应用

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

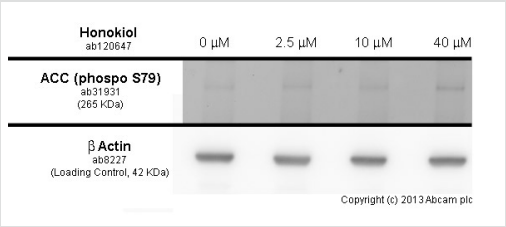
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 265 kDa. Pretreating the blot with lambda phosphatase abolished antibody binding.

靶标

功能	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.
组织特异性	Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.
通路	Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.
疾病相关	Acetyl-CoA carboxylase 1 deficiency
序列相似性	Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.
翻译后修饰	Phosphorylation on Ser-1263 is required for interaction with BRCA1.
细胞定位	Cytoplasm.

图片



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

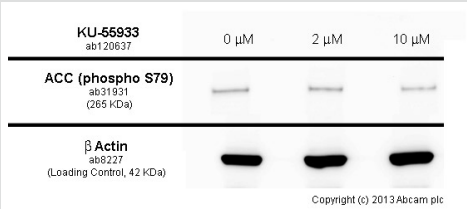
Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 265 kDa

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.



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

Developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 265 kDa

HepG2 cells were incubated at 37°C for 60 minutes with vehicle control (0 µM) 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), 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.

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