abcam

Product datasheet

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

2 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)
宿主	Rabbit
经测试应用	**适用于:** WB
种属反应性	**与反应:** Human **预测可用于:** Sheep, Goat, Chicken, Cow
免疫原	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 NCBI
阳性对照	RIPA lysates from mouse heart cytosol.
常规说明	The 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

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	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.184% Tris glycine, 30% Glycerol, 0.87% Sodium chloride
纯度	Protein A purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab31931于以下的经测试应用**

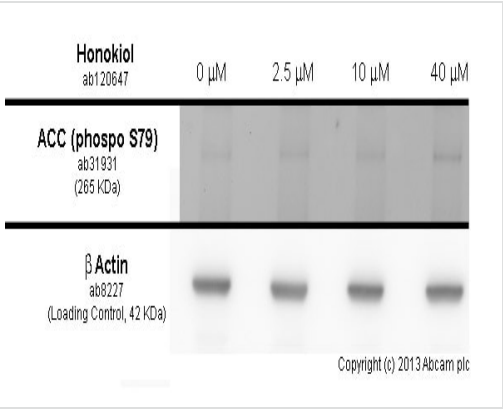
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

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.

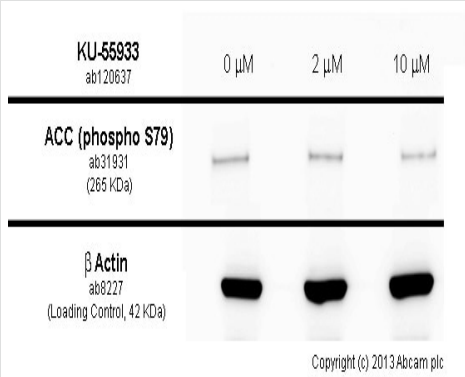
图片



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

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)

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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