abcam

Product datasheet

Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free ab173584

敲除验证 重组 RabMAb

7 图像

概述

产品名称	Anti-Acetyl Coenzyme A Carboxylase抗体[EP687Y] - BSA and Azide free
描述	兔单克隆抗体[EP687Y] to Acetyl Coenzyme A Carboxylase - BSA and Azide free
宿主	Rabbit
特异性	Acetyl Coenzyme A Carboxylase is highly expressed in lipogenic tissues such as liver, adipose, and lactating mammary gland, and its activities are regulated at various levels [Proc Natl Acad Sci U S A. 2003 Jun 24;100(13):7515-20.].
经测试应用	**适用于:** WB, IHC-P
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human breast carcinoma, Mouse stomach and Rat kidney tissue.
常规说明	ab173584 is the carrier-free version of **ab45174**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	Constituent: PBS
无载体	**是**
纯度	Protein A purified
克隆	单克隆
克隆编号	EP687Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab173584**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。

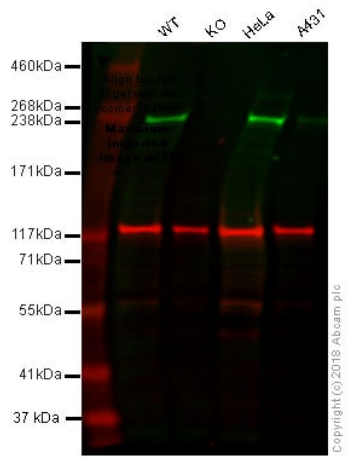
应用	Ab评论	说明
WB		Use at an assay dependent concentration. Detects a band of approximately 265 kDa (predicted molecular weight: 265 kDa). Can be blocked with Acetyl Coenzyme A Carboxylase peptide (**ab195232**).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.

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 antibody [EP687Y] - BSA and Azide free (ab173584)

All lanes : Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] (**ab45174**) at 1/2000 dilution (unpurified)

Lane 1 : Wild-type HAP1 whole cell lysate
Lane 2 : ACACA (Acetyl Coenzyme A Carboxylase) knockout HAP1 whole cell lysate
Lane 3 : HeLa whole cell lysate
Lane 4 : A431 whole cell lysate

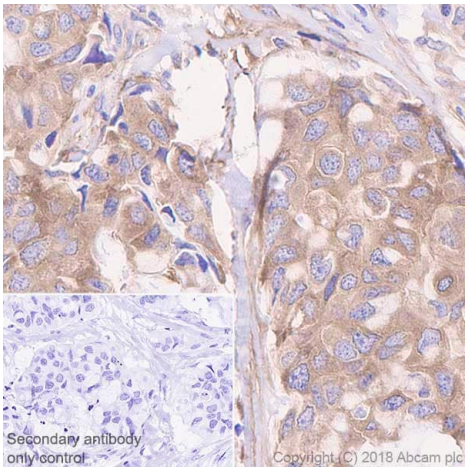
Lysates/proteins at 20 µg per lane.

Predicted band size: 265 kDa

Lanes 1 - 4: Merged signal (red and green). Green - **ab45174** observed at 265 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

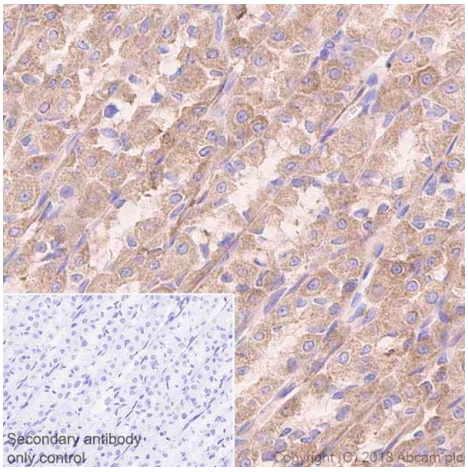
ab45174 was shown to specifically react with Acetyl Coenzyme A Carboxylase in wild-type HAP1 cells as signal was lost in ACACA (Acetyl Coenzyme A Carboxylase) knockout cells. Wild-type and ACACA (Acetyl Coenzyme A Carboxylase) knockout samples were subjected to SDS-PAGE. Ab45174 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**).



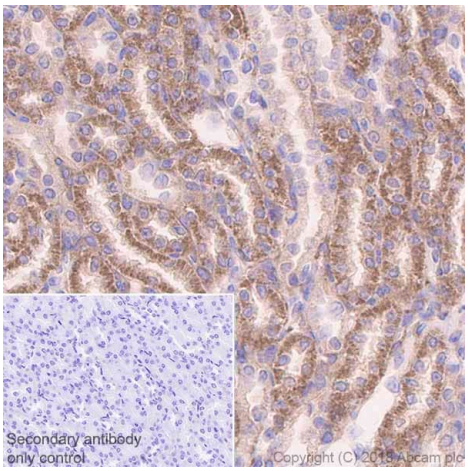
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast carcinoma tissue sections labeling Acetyl Coenzyme A Carboxylase with purified **ab45174** at 1/400 dilution (2.06 µg/mL). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**)



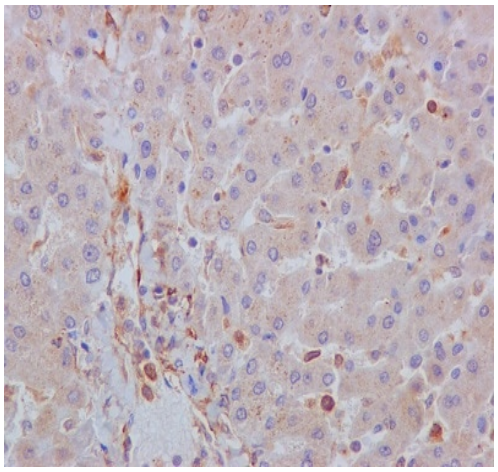
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat stomcah tissue sections labeling Acetyl Coenzyme A Carboxylase with purified **ab45174** at 1/400 dilution (2.06 µg/mL). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

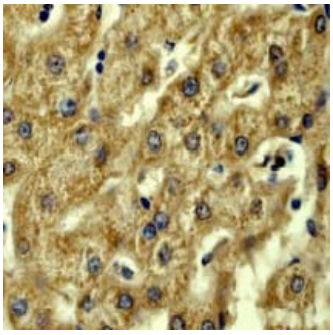
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse kidney tissue sections labeling Acetyl Coenzyme A Carboxylase with purified **ab45174** at 1/400 dilution (2.06 µg/mL). Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Acetyl Coenzyme A Carboxylase with **ab45174** (unpurified) at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**, 1/500). Counter stained with hematoxylin. Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

ab45174 (unpurified), at a dilution of 1/50, staining human Acetyl Coenzyme A Carboxylase in human liver by immunohistochemistry using paraffin embedded tissue. Heat mediated antigen retrieval was perfromed with citrate buffer pH 6 before commencing with IHC staining protocol.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab45174**).

Anti-Acetyl Coenzyme A Carboxylase antibody [EP687Y] - BSA and Azide free (ab173584)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors