

Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] ab269272

リコンビナント **RabMAb**

画像数 11

製品の概要

製品名	Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47]
製品の詳細	Rabbit monoclonal [EPR23235-47] to Acetyl Coenzyme A carboxylase alpha
由来種	Rabbit
アプリケーション	適用あり: IHC-P, Flow Cyt (Intra), ICC/IF, WB, IP 適用なし: IHC-Fr
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: 293T, HeLa, PC-12 and C2C12 lysates. IHC-P: Human breast carcinoma and endometrial carcinoma tissue. Mouse and rat lung tissue. ICC/IF: C2C12 and 293T cells. Flow Cyt (intra): C2C12 and 293T cells. IP: C2C12 and 293T cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - 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 .

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EPR23235-47
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab269272の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

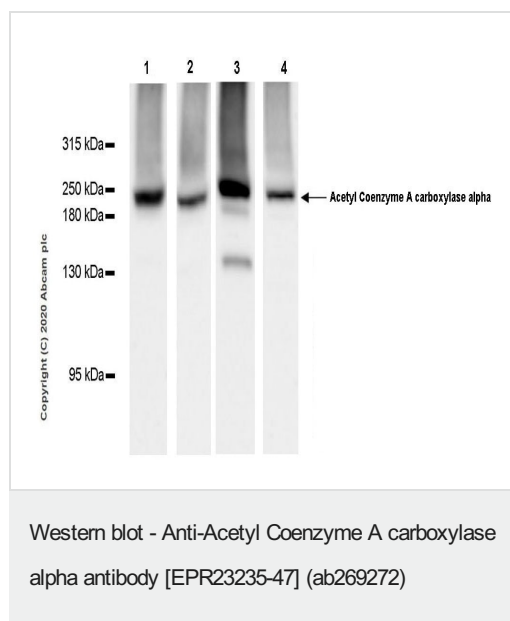
アプリケーション	Abreviews	特記事項
IHC-P		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/500.
ICC/IF		1/50.
WB		1/5000. Predicted molecular weight: 265 kDa.
IP		1/30.

追加情報 Is unsuitable for IHC-Fr.

ターゲット情報

機能	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.
組織特異性	Expressed in brain, placental, skeletal muscle, renal, pancreatic and adipose tissues; expressed at low level in pulmonary tissue; not detected in the liver.
パスウェイ	Lipid metabolism; malonyl-CoA biosynthesis; malonyl-CoA from acetyl-CoA: step 1/1.
関連疾患	Defects in ACACA are a cause of acetyl-CoA carboxylase 1 deficiency (ACACAD) [MIM:200350]; also known as ACAC deficiency or ACC deficiency. An inborn error of de novo fatty acid synthesis associated with severe brain damage, persistent myopathy and poor growth.
配列類似性	Contains 1 ATP-grasp domain. Contains 1 biotin carboxylation domain. Contains 1 biotinyl-binding domain. Contains 1 carboxyltransferase domain.
翻訳後修飾	Phosphorylation on Ser-1263 is required for interaction with BRCA1.
細胞内局在	Cytoplasm.

画像



All lanes : Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272) at 1/5000 dilution

Lane 1 : 293T (human embryonic kidney epithelial cell), whole cell lysate, in the loading buffer containing double DTT

Lane 2 : HeLa (human cervix adenocarcinoma epithelial cell), whole cell lysate, in the loading buffer containing double DTT

Lane 3 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate, in the loading buffer containing double DTT

Lane 4 : C2C12 (mouse myoblasts myoblast), whole cell lysate, in the loading buffer containing double DTT

Lysates/proteins at 20 µg per lane.

Secondary

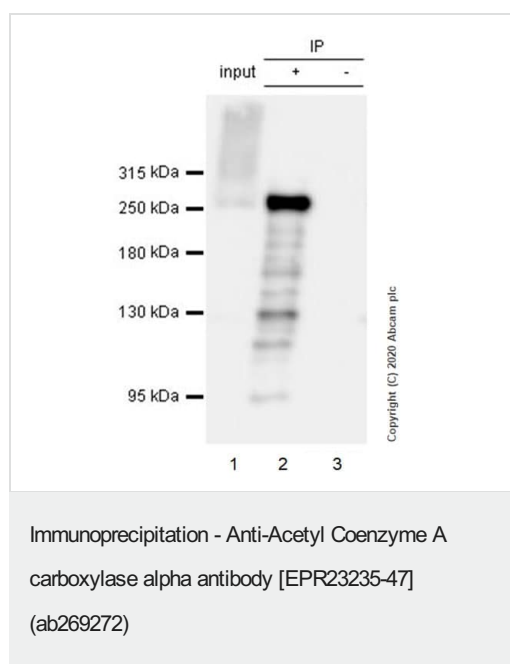
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution

Predicted band size: 265 kDa

Observed band size: 265 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

Exposure time: Lane 1, 4: 48 seconds; Lane 2, 3: 26 seconds.



Acetyl Coenzyme A carboxylase alpha was immunoprecipitated from 0.35 mg 293T (human embryonic kidney epithelial cell), whole cell lysate 10 µg with ab269272 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab269272 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

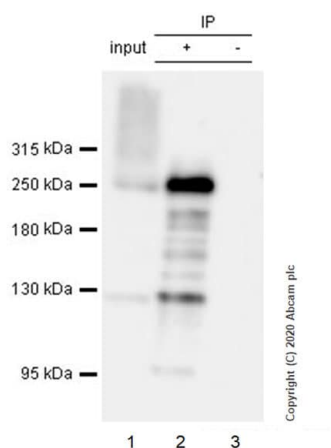
Lane 1: 293T whole cell lysate 10 µg.

Lane 2: ab269272 IP in 293T whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab269272 in 293T whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds.



Immunoprecipitation - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Acetyl Coenzyme A carboxylase alpha was immunoprecipitated from 0.35 mg C2C12 (mouse myoblasts myoblast), whole cell lysate 10 µg with ab269272 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab269272 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

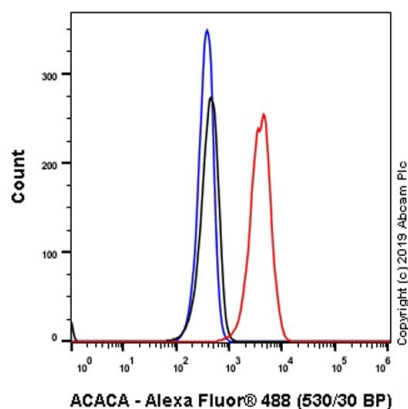
Lane 1: C2C12 whole cell lysate 10 µg.

Lane 2: ab269272 IP in C2C12 whole cell lysate 10 µg.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab269272 in C2C12 whole cell lysate.

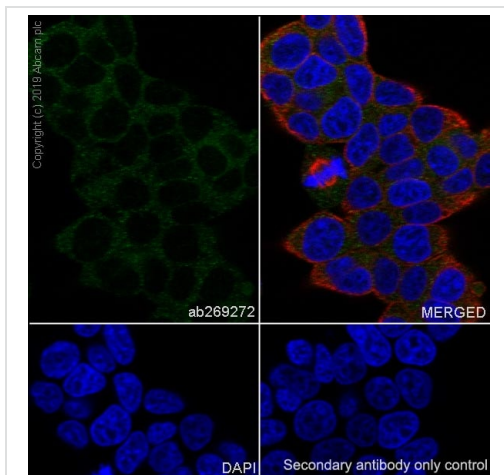
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 8 seconds.



Flow Cytometry (Intracellular) - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

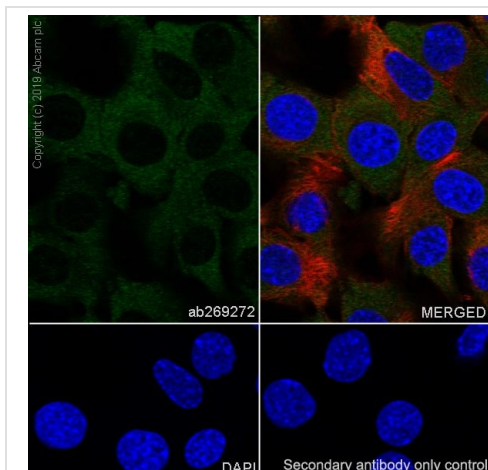
Intracellular flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized 293T (Human embryonic kidney epithelial cell) cells labelling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/500 dilution (0.1µg) (Red) compared with a Rabbit monoclonal IgG ([ab172730](#)) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized 293T cells labelling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in 293T cell line. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The nuclear counterstain was DAPI (Blue).

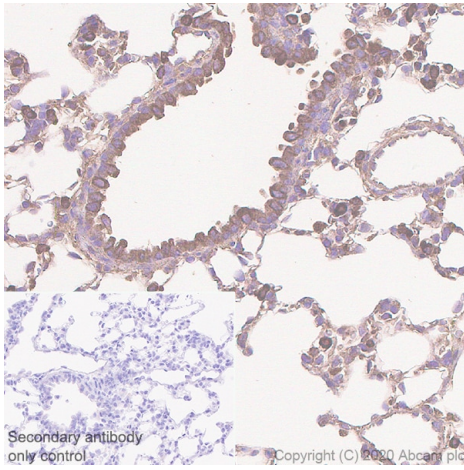
Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 2 µg/ml dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C2C12 cells labelling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/50 dilution, followed by **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 2 µg/ml dilution (Green). Confocal image showing cytoplasmic staining in C2C12 cell line. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 2.5 µg/ml dilution (Red). The nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Secondary antibody is **ab150077** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 2 µg/ml dilution.

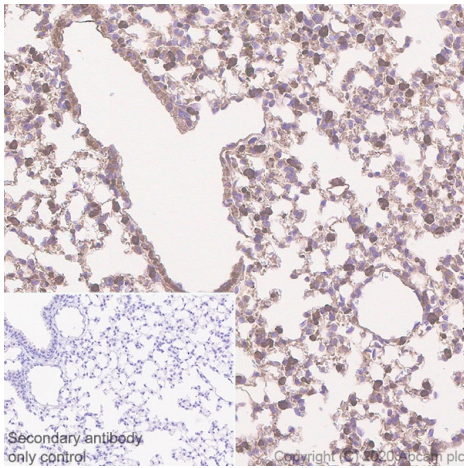


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunohistochemical analysis of paraffin-embedded rat lung tissue labeling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/500 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on rat lung (PMID: 17521700). The section was incubated with ab269272 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

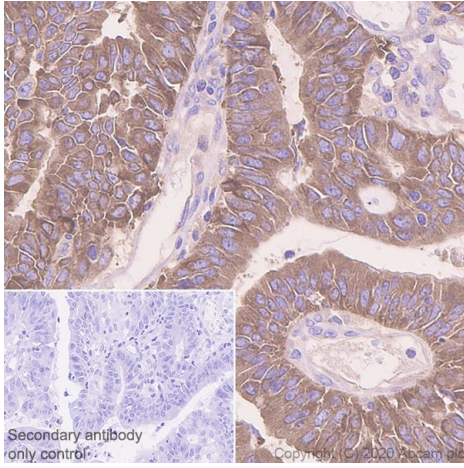


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/500 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on mouse lung (PMID: 17521700). The section was incubated with ab269272 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

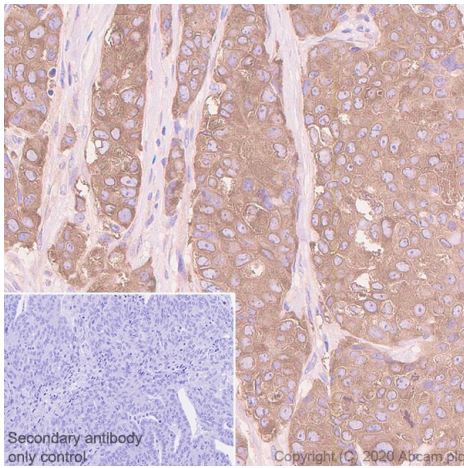


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunohistochemical analysis of paraffin-embedded human endometrial carcinoma tissue labeling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/500 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining on human endometrial carcinoma. The section was incubated with ab269272 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue labeling Acetyl Coenzyme A carboxylase alpha with ab269272 at 1/500 dilution followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Cytoplasmic staining on human breast carcinoma (PMID: 21415164). The section was incubated with ab269272 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin.

Secondary antibody only control: Secondary antibody is ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

Why choose a recombinant antibody?



Research with confidence
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Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
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Anti-Acetyl Coenzyme A carboxylase alpha antibody [EPR23235-47] (ab269272)

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