

Anti-ACOX1/AOX antibody [EPR19038] ab184032

リコンビナント **RabMAb**

25 References 画像数 8

製品の概要

製品名	Anti-ACOX1/AOX antibody [EPR19038]
製品の詳細	Rabbit monoclonal [EPR19038] to ACOX1/AOX
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, ICC/IF, IP
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: Mouse liver, heart and kidney lysates; C6, RAW 264.7, PC-12 and NIH/3T3 whole cell lysates; Rat brain, heart and liver lysates; Human fetal liver and fetal kidney lysates. ICC/IF: C6 and NIH/3T3 cells. Flow Cyt (intra): NIH/3T3 cells. IP: NIH/3T3 whole cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR19038

アプリケーション

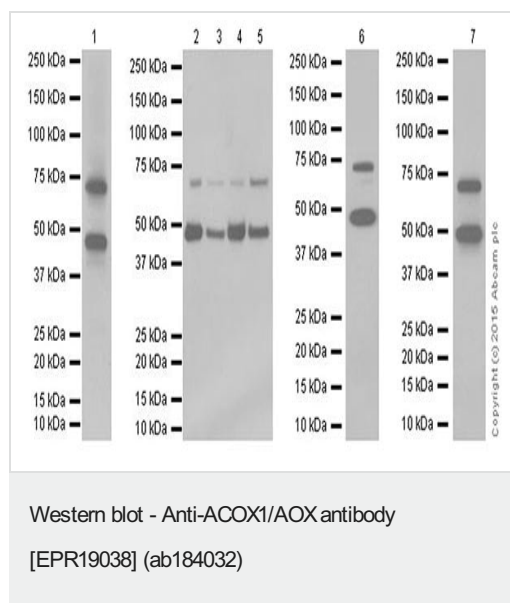
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab184032の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/100.
WB		1/1000. Detects a band of approximately 72, 50 kDa (predicted molecular weight: 75 kDa).
ICC/IF		1/250.
IP		1/30.

ターゲット情報

機能	Catalyzes the desaturation of acyl-CoAs to 2-trans-enoyl-CoAs. Isoform 1 shows highest activity against medium-chain fatty acyl-CoAs and activity decreases with increasing chain length. Isoform 2 is active against a much broader range of substrates and shows activity towards very long-chain acyl-CoAs. Isoform 2 is twice as active as isoform 1 against 16-hydroxy-palmitoyl-CoA and is 25% more active against 1,16-hexadecanodioyl-CoA.
組織特異性	Widely expressed with highest levels of isoform 1 and isoform 2 detected in testis. Isoform 1 is expressed at higher levels than isoform 2 in liver and kidney while isoform 2 levels are higher in brain, lung, muscle, white adipose tissue and testis. Levels are almost equal in heart.
パスウェイ	Lipid metabolism; peroxisomal fatty acid beta-oxidation.
関連疾患	Adrenoleukodystrophy, pseudoneonatal
配列類似性	Belongs to the acyl-CoA oxidase family.
細胞内局在	Peroxisome.

画像



Lanes 1-5 : Anti-ACOX1/AOX antibody [EPR19038] (ab184032) at 1/1000 dilution

Lanes 6-7 : Anti-ACOX1/AOX antibody [EPR19038] (ab184032) at 1/5000 dilution

Lane 1 : Mouse liver lysate

Lane 2 : C6 (Rat glial tumor cell line) whole cell lysate

Lane 3 : RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate

Lane 4 : PC-12 (Rat adrenal gland pheochromocytoma cell line) whole cell lysate

Lane 5 : NIH/3T3 (Mouse embryo fibroblast cell line) whole cell lysate

Lane 6 : Mouse heart lysate

Lane 7 : Mouse kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

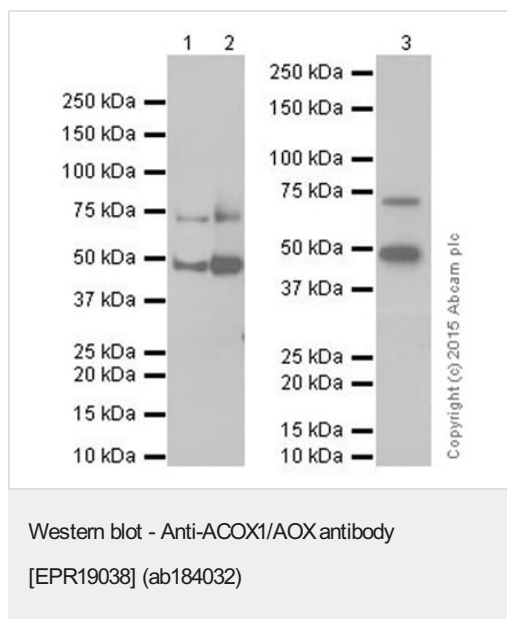
Predicted band size: 75 kDa

Observed band size: 50,72 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

Exposure time Lane 1-5: 1 second; Lane 6: 30 seconds; Lane 7: 2 seconds.

The expression profile observed is consistent with what has been described in the literature (PMID:) 8798738 and 17255948.



All lanes : Anti-ACOX1/AOX antibody [EPR19038] (ab184032) at 1/1000 dilution

Lane 1 : Rat brain lysate

Lane 2 : Rat heart lysate

Lane 3 : Rat liver lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

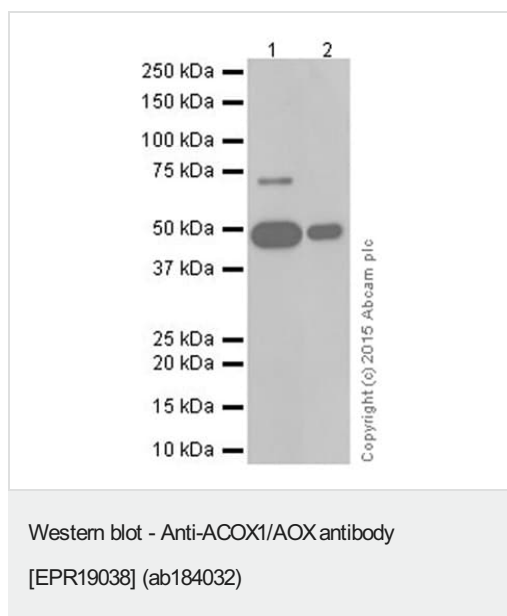
Predicted band size: 75 kDa

Observed band size: 50,72 kDa

Blocking/dilution buffer: 5% NFDM/TBST.

Exposure time Lane 1/2: 8 seconds; Lane 3: 1 second.

The expression profile observed is consistent with what has been described in the literature (PMID:) 8798738 and 17255948.



All lanes : Anti-ACOX1/AOX antibody [EPR19038] (ab184032) at 1/1000 dilution

Lane 1 : Human fetal liver lysate

Lane 2 : Human fetal kidney lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG Peroxidase Conjugate, specific to the non-reduced form of IgG at 1/10000 dilution

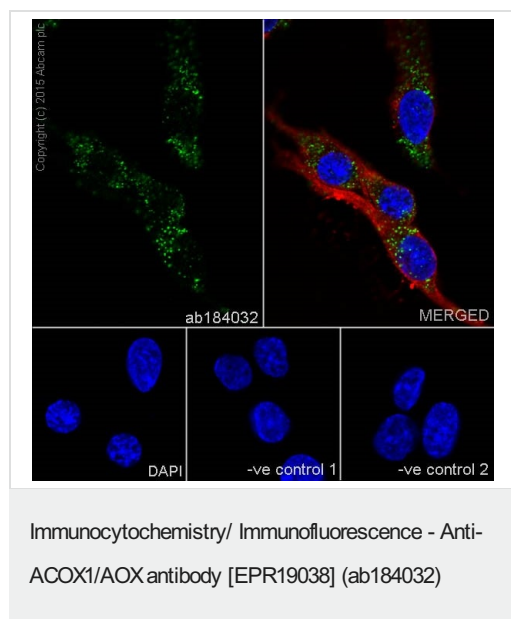
Predicted band size: 75 kDa

Observed band size: 50,72 kDa

Exposure time: 3 minutes

Blocking/dilution buffer: 5% NFDM/TBST.

The expression profile observed is consistent with what has been described in the literature (PMID:) 8798738 and 17255948.



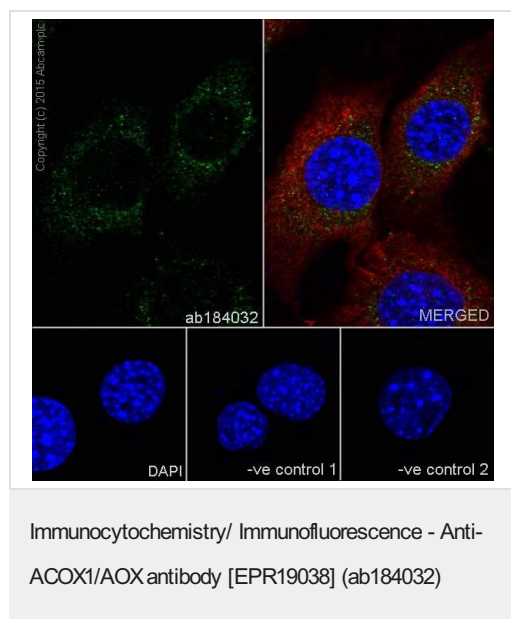
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized C6 (Rat glial tumor cell line) cells labeling ACOX1/AOX with ab184032 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on C6 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [EPR19038] - Loading Control ([ab7291](#)) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed ([ab150120](#)) at 1/1000 dilution (red).

The negative controls are as follows:

-ve control 1: ab184032 at 1/250 dilution followed by [ab150120](#) at 1/1000 dilution.

-ve control 2: [ab7291](#) at 1/1000 dilution followed by [ab150077](#) at 1/1000 dilution.



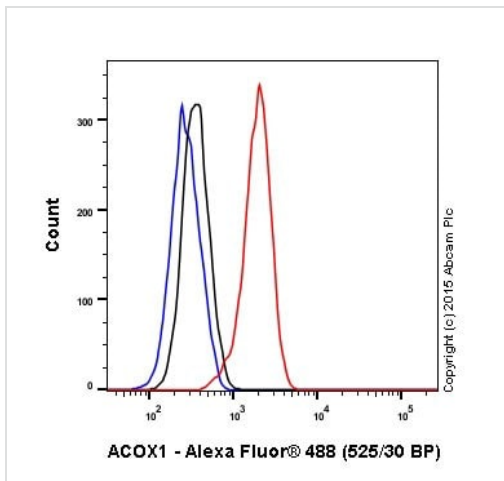
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (Mouse embryonic fibroblast cell line) cells labeling ACOX1/AOX with ab184032 at 1/250 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on NIH/3T3 cell line. The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [EPR19038] - Loading Control ([ab7291](#)) at 1/1000 dilution and Goat Anti-Mouse IgG (AlexaFluor®594) preadsorbed ([ab150120](#)) at 1/1000 dilution (red).

The negative controls are as follows:

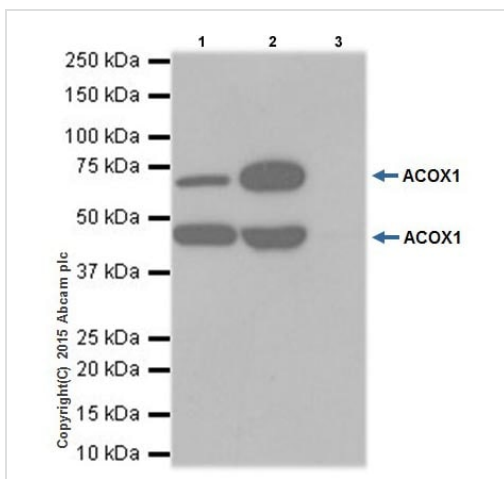
-ve control 1: ab184032 at 1/250 dilution followed by [ab150120](#) at 1/1000 dilution.

-ve control 2: [ab7291](#) at 1/1000 dilution followed by [ab150077](#) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-ACOX1/AOX antibody [EPR19038] (ab184032)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed NIH/3T3 (Mouse embryonic fibroblast) cell line labeling ACOX1/AOX with ab184032 at 1/100 dilution (red) compared with a Rabbit IgG, monoclonal [EPR19038] - Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti Rabbit IgG (FITC) at 1/500 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-ACOX1/AOX antibody [EPR19038] (ab184032)

ACOX1/AOX was immunoprecipitated from 1mg of NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate with ab184032 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab184032 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: NIH/3T3 whole cell lysate 10µg (Input).

Lane 2: ab184032 IP in NIH/3T3 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR19038] - Isotype Control (**ab172730**) instead of ab184032 in HeLa whole cell lysate.

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

Exposure time: 30 seconds.

Why choose a recombinant antibody?



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Consistent and reproducible results



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Confirmed specificity



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Anti-ACOX1/AOX antibody [EPR19038] (ab184032)

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