


Anti-Aconitase 1/ACO1 antibody [EPR7226(2)] ab183721

KO 評価済 リコンビナント RabMAb

1 References 画像数 4

製品の概要

製品名	Anti-Aconitase 1/ACO1 antibody [EPR7226(2)]
製品の詳細	Rabbit monoclonal [EPR7226(2)] to Aconitase 1/ACO1
由来種	Rabbit
アプリケーション	適用あり: WB
種交差性	交差種: Human 交差が予測される動物種: Mouse, Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Human fetal liver tissue lysate, HepG2, T.T, U20S, HeLa and HEK-293 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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% 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	EPR7226(2)
アイソタイプ	IgG

アプリケーション

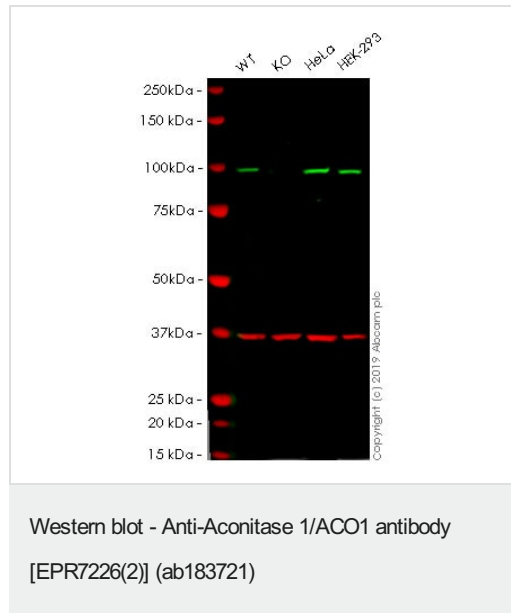
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab183721の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000 - 1/20000. Predicted molecular weight: 98 kDa.

ターゲット情報

機能	Iron sensor. Binds a 4Fe-4S cluster and functions as aconitase when cellular iron levels are high. Functions as mRNA binding protein that regulates uptake, sequestration and utilization of iron when cellular iron levels are low. Binds to iron-responsive elements (IRES) in target mRNA species when iron levels are low. Binding of a 4Fe-4S cluster precludes RNA binding. Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.
配列類似性	Belongs to the aconitase/IPM isomerase family.
細胞内局在	Cytoplasm.

画像



All lanes : Anti-Aconitase 1/ACO1 antibody [EPR7226(2)]
(ab183721) at 1 µg/ml

Lane 1 : Wild-type U2OS whole cell lysate

Lane 2 : ACO1 knockout U-2 OS whole cell lysate

Lane 3 : HeLa (Human epithelial cell line from cervix
adenocarcinoma) whole cell lysate

Lane 4 : HEK-293 (Human epithelial cell line from embryonic
kidney) whole cell lysate

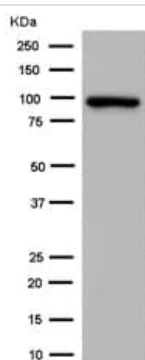
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 98 kDa

Lanes 1 -4: Merged signal (red and green). Green - ab183721
observed at 98 kDa. Red - loading control, **ab9484**, observed at 37
kDa.

ab183721 was shown to specifically react with ACO1 in wild-type U2OS cells as signal was lost in ACO1 knockout cells. Wild-type and ACO1 knockout samples were subjected to SDS-PAGE. Ab183721 and [ab9484](#) (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1 ug/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed [ab216772](#) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed [ab216777](#) secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



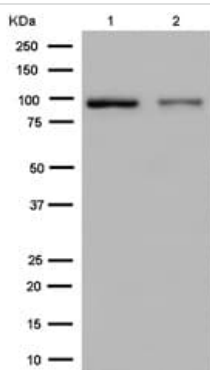
Western blot - Anti-Aconitase 1/ACO1 antibody [EPR7226(2)] (ab183721)

Anti-Aconitase 1/ACO1 antibody [EPR7226(2)] (ab183721) at 1/20000 dilution + Human fetal liver tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 98 kDa



Western blot - Anti-Aconitase 1/ACO1 antibody [EPR7226(2)] (ab183721)

All lanes : Anti-Aconitase 1/ACO1 antibody [EPR7226(2)] (ab183721) at 1/1000 dilution

Lane 1 : HepG2 cell lysate

Lane 2 : T.T cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/5000 dilution

Predicted band size: 98 kDa

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Aconitase 1/ACO1 antibody [EPR7226(2)]
(ab183721)

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