


### Anti-Aconitase 2 antibody [EPR8282(B)] ab129069

KO 評価済 リコンビナント RabMAb

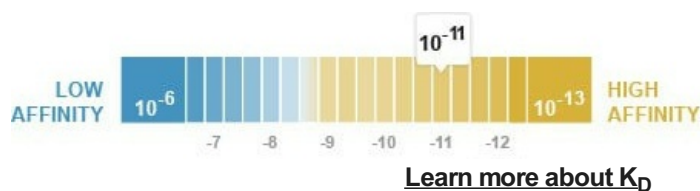
★★★★★ 8 Abreviews 16 References 画像数 6

#### 製品の概要

製品名	Anti-Aconitase 2 antibody [EPR8282(B)]
製品の詳細	Rabbit monoclonal [EPR8282(B)] to Aconitase 2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt
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 within Human Aconitase 2 aa 50-150. The exact sequence is proprietary.
ポジティブ・コントロール	HeLa, K562 and Jurkat cell lysates; Human fetal heart lysate; Human kidney tissue.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K <sub>D</sub> 値)	K <sub>D</sub> = 2.90 x 10 <sup>-11</sup> M



バッファー	pH: 7.20
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	Preservative: 0.01% Sodium azide
	Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR8282(B)
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ab129069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。

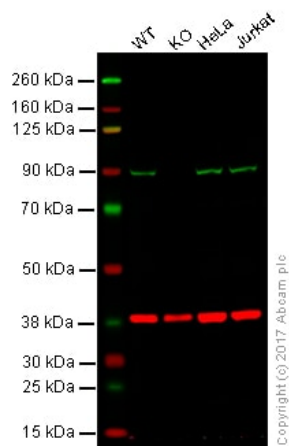
アプリケーション	Abreviews	特記事項
WB	★★★★★ (7)	1/10000 - 1/50000. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

**追加情報** Is unsuitable for Flow Cyt.

## ターゲット情報

機能	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.
パスウェイ	Carbohydrate metabolism; tricarboxylic acid cycle; isocitrate from oxaloacetate: step 2/2.
配列類似性	Belongs to the aconitase/IPM isomerase family.
細胞内局在	Mitochondrion.

## 画像



Western blot - Anti-Aconitase 2 antibody  
[EPR8282(B)] (ab129069)

**Lane 1:** Wild-type HAP1 whole cell lysate (20 µg)

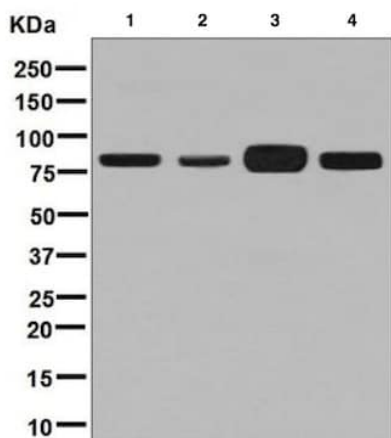
**Lane 2:** Aconitase 2 knockout HAP1 whole cell lysate (20 µg)

**Lane 3:** HeLa whole cell lysate (20 µg)

**Lane 4:** Jurkat whole cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab129069 observed at 90 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab129069 was shown to specifically react with Aconitase 2 in wild-type HAP1 cells as signal was lost in Aconitase 2 knockout cells. Wild-type and Aconitase 2 knockout samples were subjected to SDS-PAGE. ab129069 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/10000 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.



Western blot - Anti-Aconitase 2 antibody  
[EPR8282(B)] (ab129069)

**All lanes :** Anti-Aconitase 2 antibody [EPR8282(B)] (ab129069) at 1/10000 dilution

**Lane 1 :** HeLa cell lysate

**Lane 2 :** K562 cell lysate

**Lane 3 :** Human fetal heart tissue lysate

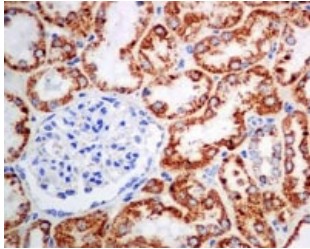
**Lane 4 :** Jurkat cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat anti-rabbit HRP-conjugated at 1/2000 dilution

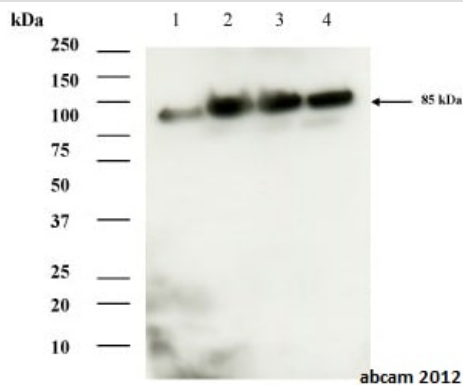
**Predicted band size:** 85 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aconitase 2 antibody [EPR8282(B)] (ab129069)

ab129069, at 1/100 dilution, staining Aconitase 2 in paraffin-embedded Human kidney tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-Aconitase 2 antibody [EPR8282(B)] (ab129069)

This image is courtesy of an abreview submitted by Ruma Raha-Chowdhury, University Of Cambridge, United Kingdom

**All lanes :** Anti-Aconitase 2 antibody [EPR8282(B)] (ab129069) at 1/1000 dilution

**Lane 1 :** 1 Month old Mouse Liver

**Lanes 2-3 :** 3 Month old Mouse Liver

**Lane 4 :** 6 Month old Mouse Liver

#### Secondary

**All lanes :** Dako Pig polyclonal to anti-rabbit (HRP) at 1/3000 dilution

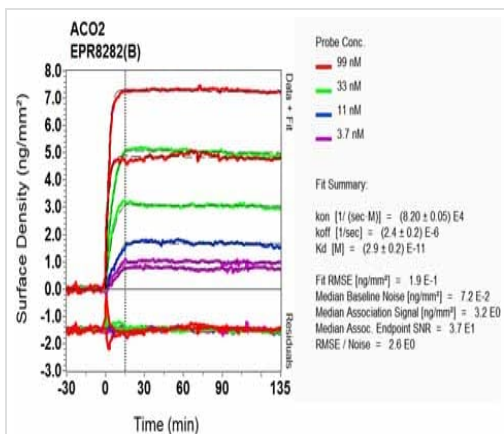
Developed using the ECL technique.

Performed under reducing conditions.

**Predicted band size:** 85 kDa

**Exposure time:** 1 minute

**Blocking:** 5% Milk at 24°C for 1 Hour



SPR Scanning - Anti-Aconitase 2 antibody  
[EPR8282(B)] (ab129069)

Equilibrium dissociation constant ( $K_D$ )

Learn more about  $K_D$

[Click here to learn more about  \$K\_D\$](#)

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 2 antibody [EPR8282(B)] (ab129069)

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