

Product datasheet

Anti-Aconitase 2 antibody ab71440

★★★★☆ 7 Abreviews 7 References 4 图像

概述

产品名称	Anti-Aconitase 2抗体
描述	兔多克隆抗体to Aconitase 2
宿主	Rabbit
经测试应用	适用于: ICC/IF, IHC-P, WB
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide (Human) conjugated to KLH
阳性对照	Mouse heart tissue lysate 293 cell lysate

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Ammonium Sulphate Precipitation
纯化说明	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
克隆	多克隆
同种型	IgG

应用

Our [Abpromise guarantee](#) covers the use of **ab71440** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

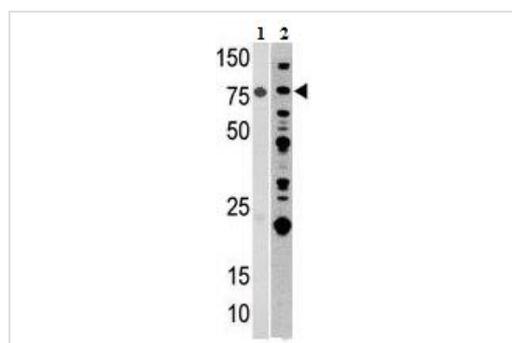
应用	Ab评论	说明
ICC/IF		Use at an assay dependent concentration.

应用	Ab评论	说明
IHC-P		Use a concentration of 2 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★☆	1/100 - 1/500. Detects a band of approximately 85 kDa (predicted molecular weight: 85 kDa).

靶标

功能	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate.
通路	Carbohydrate metabolism; tricarboxylic acid cycle; isocitrate from oxaloacetate: step 2/2.
序列相似性	Belongs to the aconitase/IPM isomerase family.
细胞定位	Mitochondrion.

图片



Western blot - Anti-Aconitase 2 antibody (ab71440)

All lanes : Anti-Aconitase 2 antibody (ab71440) at 1/60 dilution

Lane 1 : Mouse heart tissue lysate

Lane 2 : 293 cell lysate

Lysates/proteins at 35 µg per lane.

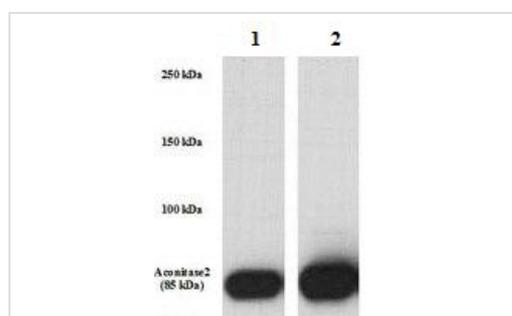
Predicted band size: 85 kDa

Observed band size: 75 kDa

[why is the actual band size different from the predicted?](#)

Additional bands at: 140 kDa, 20 kDa, 35 kDa, 48 kDa, 60 kDa.

We are unsure as to the identity of these extra bands.



Western blot - Anti-Aconitase 2 antibody (ab71440)

All lanes : Anti-Aconitase 2 antibody (ab71440) at 1/1000 dilution

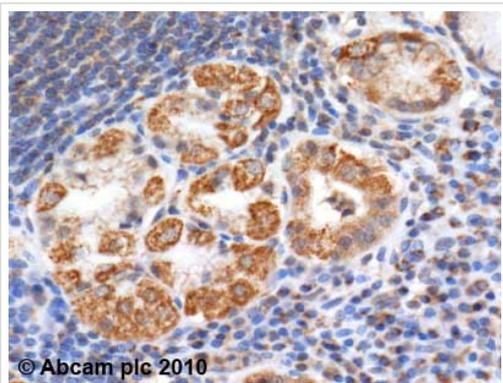
Lane 1 : Perfused isolated rat heart whole tissue lysate lysed with 50 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 1% NP-40, 0.1% SDS, 0.5% Na-deoxycholate, 1 mM Na₃VO₄, 20 mM NaF, 1 mM PMSF, 5 v/v % protease inhibitor cocktail

Lane 2 : Perfused isolated rat heart whole tissue lysate lysed with T-PER Tissue Protein Extraction Reagent [# 785101; Pierce], containing 1mM Na₃VO₄, 20 mM NaF, 5 v/v % protease inhibitor cocktail

Lysates/proteins at 12.5 µg per lane.

Predicted band size: 85 kDa

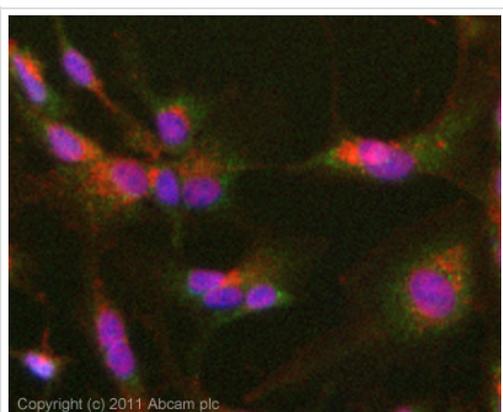
Observed band size: 85 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aconitase 2 antibody (ab71440)

Ab71440 (2µg/ml) staining Aconitase 2 in human stomach using an automated system (DAKO Autostainer Plus). Using this protocol there is strong cytoplasmic staining of Parietal cells.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Immunocytochemistry/ Immunofluorescence - Anti-Aconitase 2 antibody (ab71440)

ICC/IF image of ab71440 stained HepG2 cells. The cells were 4% formaldehyde (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab71440, 1µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#) Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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