abcam

Product datasheet

Anti-ETFDH antibody [3H2BG1] ab126576

4 References 2 Images

Overview

Product name	Anti-ETFDH antibody [3H2BG1]
Description	Mouse monoclonal [3H2BG1] to ETFDH
Host species	Mouse
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Cow, Human
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	Human cell, heart and liver lysates, Rat liver lysates, Mouse liver lysates, Bovine heart mitochondria lysate. This antibody gave a positive result in IHC in the following FFPE tissue: Human normal heart muscle.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As Product was previously marketed under the MitoSciences sub-brand.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: 99% HEPES buffered saline
Purity	Ammonium Sulphate Precipitation
Purification notes	Produced in vitro using hybridomas grown in serum-free medium, and then concentrated by ammonium sulfate precipitation. Near homogeneity as judged by SDS-PAGE.

Clonality	Monoclonal
Clone number	3H2BG1
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126576 in the following tested applications.

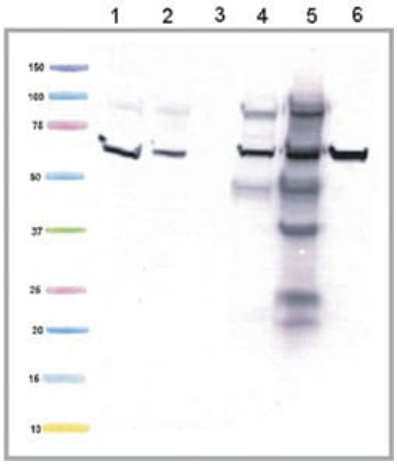
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 68 kDa.
IHC-P		Use a concentration of 5 µg/ml.

Target

Function	Accepts electrons from ETF and reduces ubiquinone.
Involvement in disease	Defects in ETFDH are the cause of glutaric aciduria type 2C (GA2C) [MIM:231680]. GA2C is an autosomal recessively inherited disorder of fatty acid, amino acid, and choline metabolism. It is characterized by multiple acyl-CoA dehydrogenase deficiencies resulting in large excretion not only of glutaric acid, but also of lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovaleric acids.
Sequence similarities	Belongs to the ETF-QO/fixC family. Contains 1 4Fe-4S ferredoxin-type domain.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-ETFDH antibody [3H2BG1] (ab126576)

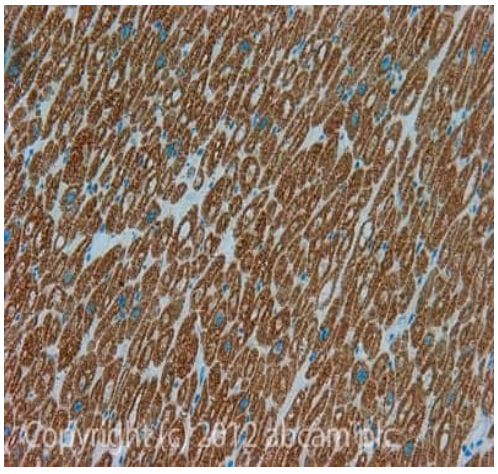
All lanes : Anti-ETFDH antibody [3H2BG1] (ab126576) at 1 µg/ml

Lane 1 : Human heart lysate at 20 µg
Lane 2 : Human liver lysate at 20 µg
Lane 3 : Human cell lysate at 20 µg
Lane 4 : Rat liver lysate at 20 µg
Lane 5 : Mouse liver lysate at 20 µg
Lane 6 : Bovine heart mitochondria at 10 µg

Secondary
All lanes : GAM-HRP at 1/3000 dilution

Predicted band size: 68 kDa

The high background signal in Mouse tissue sample was caused by the direct reaction between the Mouse IgG in Mouse tissue preps and the goat anti-Mouse secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ETFDH antibody [3H2BG1] (ab126576)

IHC image of ETFDH staining in Human normal heart muscle formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab126576, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

- 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.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors