

Product datasheet

Anti-ATPB antibody [7E3F2] ab110280

★★★★★ [1 Abreviews](#) [8 References](#) [1 Image](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-ATPB antibody [7E3F2] |
| Description | Mouse monoclonal [7E3F2] to ATPB |
| Host species | Mouse |
| Tested applications | Suitable for: WB |
| Species reactivity | Reacts with: Mouse, Rat, Cow, Human |
| Immunogen | Full length native protein (purified). This information is considered to be commercially sensitive. |
| Positive control | Isolated mitochondria from Human heart, bovine heart, rat heart, mouse heart, and HepG2 cells. |
| General notes | <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>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.</p> <p>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</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline |
| Purity | Proprietary Purification |
| Purification notes | The purity of ab110280 is near homogeneity, as judged by SDS-PAGE (purity >95%). The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. |
| Clonality | Monoclonal |

Clone number 7E3F2
 Isotype IgG2a
 Light chain type kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110280 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 | ★★★★★ (1) | Use a concentration of 4 µg/ml. Predicted molecular weight: 57 kDa. |

Target

Function

Mitochondrial membrane ATP synthase (F(1)F(0) ATP synthase or Complex V) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by electron transport complexes of the respiratory chain. F-type ATPases consist of two structural domains, F(1) - containing the extramembraneous catalytic core, and F(0) - containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F(1) is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

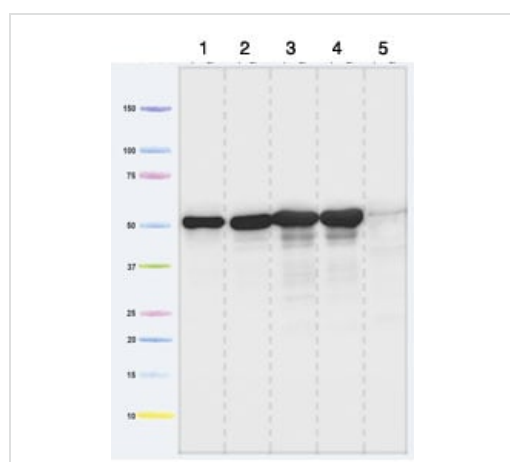
Sequence similarities

Belongs to the ATPase alpha/beta chains family.

Cellular localization

Mitochondrion. Mitochondrion inner membrane. Peripheral membrane protein.

Images



All lanes : Anti-ATPB antibody [7E3F2] (ab110280) at 4 µg/ml

Lane 1 : Isolated mitochondria from Human heart at 15 µg

Lane 2 : Isolated mitochondria from cow heart at 6 µg

Lane 3 : Isolated mitochondria from rat heart at 30 µg

Lane 4 : Isolated mitochondria from mouse heart at 30 µg

Lane 5 : Isolated mitochondria from HepG2 cells at 30 µg

Predicted band size: 57 kDa

Western blot - Anti-ATPB antibody [7E3F2] (ab110280)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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.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