

Product datasheet

Anti-ATP5H antibody [7F9BG1] ab110275

★★★★★ 3 Abreviews 11 References 4 Images

Overview

| | |
|----------------------------|---|
| Product name | Anti-ATP5H antibody [7F9BG1] |
| Description | Mouse monoclonal [7F9BG1] to ATP5H |
| Host species | Mouse |
| Tested applications | Suitable for: WB, ICC/IF, Flow Cyt |
| Species reactivity | Reacts with: Mouse, Rat, Cow, Human, African green monkey |
| Immunogen | Other Immunogen Type corresponding to Cow ATP5H. |
| Positive control | Isolated mitochondria from Human heart, Bovine heart, Rat heart, Mouse heart, and HepG2, Cultured Human embryonic lung-derived fibroblasts (strain MRC5), HeLa cells |
| General notes | <p>This antibody clone is manufactured by Abcam.</p> <p>For mouse and rat samples, this antibody will only recognize ATP5H in purified mitochondrial samples. Mouse and rat cell lysates and tissue homogenates are not recommended with this antibody.</p> <p>Product was previously marketed under the MitoSciences sub-brand.</p> <p>If you require this antibody in a particular buffer formulation or a particular conjugate for your experiments, please contact orders@abcam.com or you can find further information here.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | Preservative: 0.02% Sodium azide |
| Purity | Immunogen affinity purified |
| Purification notes | Near homogeneity as judged by SDS-PAGE. ab110275 was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. |
| Clonality | Monoclonal |
| Clone number | 7F9BG1 |
| Isotype | IgG2b |
| Light chain type | kappa |

Applications

Our [Abpromise guarantee](#) covers the use of **ab110275** 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: 18 kDa. |
| ICC/IF | | Use a concentration of 1 - 5 µg/ml. (heat-induced antigen-retrieval improves signal) |
| Flow Cyt | ★★★★★ | Use a concentration of 1 µg/ml. ab170192 - Mouse monoclonal IgG2b, is suitable for use as an isotype control with this antibody. |

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. Part of the complex F(0) domain and the peripheral stalk, which acts as a stator to hold the catalytic alpha(3)beta(3) subcomplex and subunit a/ATP6 static relative to the rotary elements.

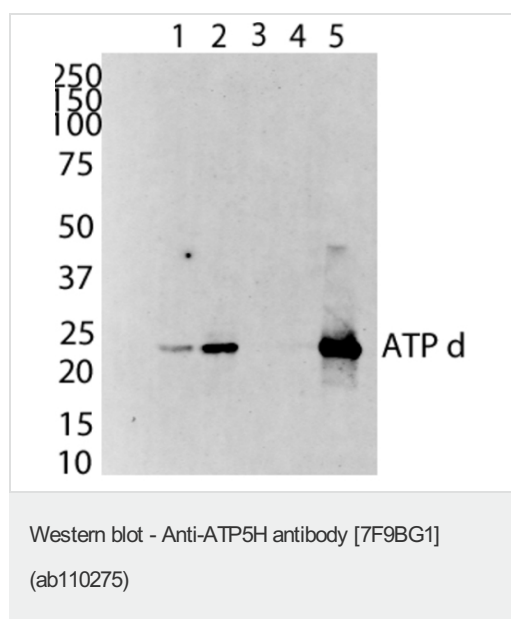
Sequence similarities

Belongs to the ATPase d subunit family.

Cellular localization

Mitochondrion. Mitochondrion inner membrane.

Images



All lanes : Anti-ATP5H antibody [7F9BG1] (ab110275) at 1 µg/ml

Lane 1 : HDFn (human) cell lysates at 20 µg

Lane 2 : COS7 (monkey) cell lysates at 20 µg

Lane 3 : H4IIE (rat) cell lysates at 20 µg

Lane 4 : MEF (mouse) cell lysates at 20 µg

Lane 5 : bovine heart mitochondria lysates at 5 µg

Predicted band size: 18 kDa



Western blot - Anti-ATP5H antibody [7F9BG1] (ab110275)

All lanes : Anti-ATP5H antibody [7F9BG1] (ab110275) at 1/1 dilution

Lane 1 : Human heart mitochondria at 10 μ g

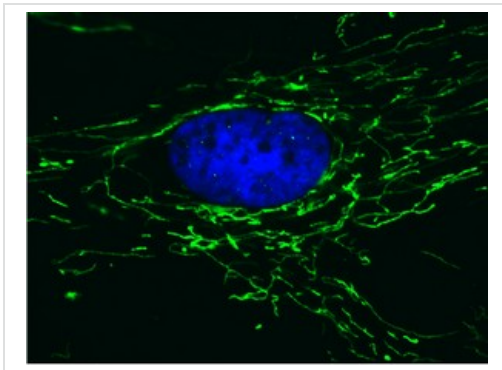
Lane 2 : Bovine heart mitochondria at 4 μ g

Lane 3 : Rat heart mitochondria at 10 μ g

Lane 4 : Mouse heart mitochondria at 10 μ g

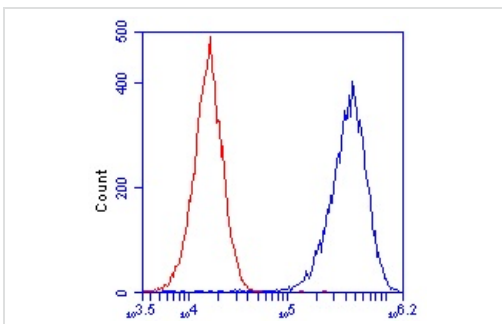
Lane 5 : HepG2 mitochondria at 20 μ g

Predicted band size: 18 kDa



Immunocytochemistry/ Immunofluorescence - Anti-ATP5H antibody [7F9BG1] (ab110275)

Mitochondrial localization of ATP5H. Cultured Human embryonic lung-derived fibroblasts (strain MRC5) were fixed, permeabilized and then labeled with ab110275 (5 μ g/ml) followed by an AlexaFluor® 488-conjugated-goat-anti-mouse IgG(H+L) secondary antibody (2 μ g/ml).



Flow Cytometry - Anti-ATP5H antibody [7F9BG1] (ab110275)

HeLa cells were stained with 1 μ g/mL ab110275 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.

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