abcam

Product datasheet

Anti-ATP5H antibody [7F9BG1] ab110275

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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	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
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	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 recommneded with this antibody. 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. Do Not Freeze.
Storage buffer	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
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

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab110275 in the following tested applications.

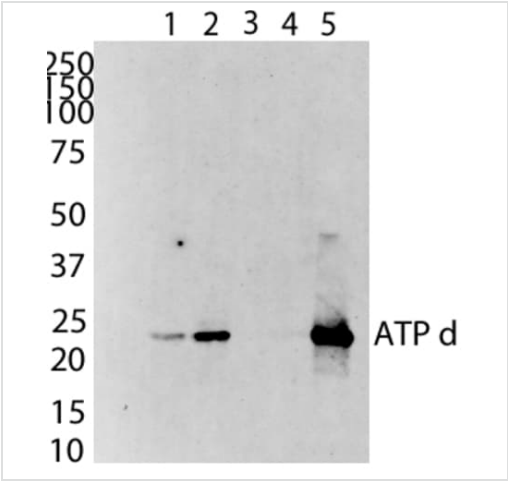
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	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 improvessignal)
Flow Cyt	★★★★★ (1)	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 peripheric 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

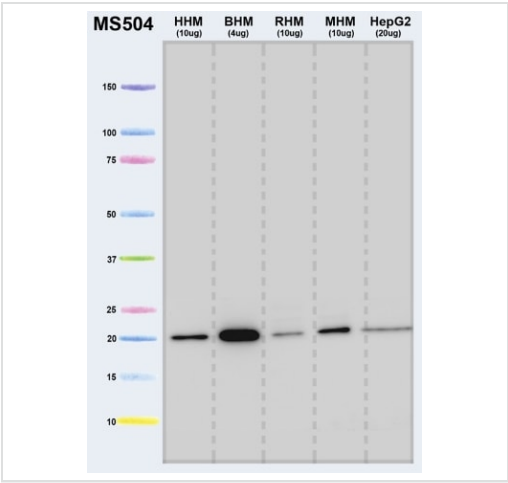


Western blot - Anti-ATP5H antibody [7F9BG1] (ab110275)

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

Lane 1 : HDFn (human) cell lysates at 20 µg
Lane 2 : COS-7 (African green monkey kidney fibroblast-like cell line) 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

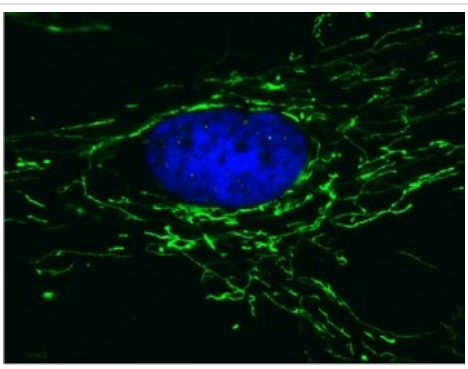


Western blot - Anti-ATP5H antibody [7F9BG1] (ab110275)

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

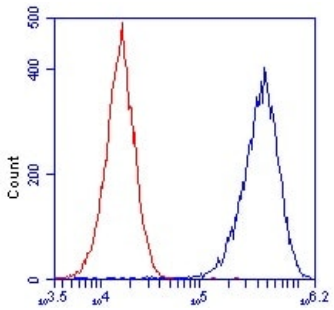
Lane 1 : Human heart mitochondria at 10 µg
Lane 2 : Bovine heart mitochondria at 4 µg
Lane 3 : Rat heart mitochondria at 10 µg
Lane 4 : Mouse heart mitochondria at 10 µg
Lane 5 : HepG2 mitochondria at 20 µg

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 µg/ml) followed by an AlexaFluor® 488-conjugated-goat-anti-mouse IgG(H+L) secondary antibody (2 µg/ml).



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

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

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

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