

Product datasheet

Anti-ATP5F1 antibody ab154564

4 Images

Overview

Product name	Anti-ATP5F1 antibody
Description	Rabbit polyclonal to ATP5F1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment, corresponding to a region within amino acids 66-256 of Human ATP5F1 (Uniprot ID: P24539).
Positive control	MOLT4, Mouse brain whole cell lysate; HeLa cells; Human colon tissue
General notes	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.00</p> <p>Preservative: 0.01% Thimerosal (merthiolate)</p> <p>Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154564 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		1/500 - 1/3000. Predicted molecular weight: 29 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

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.

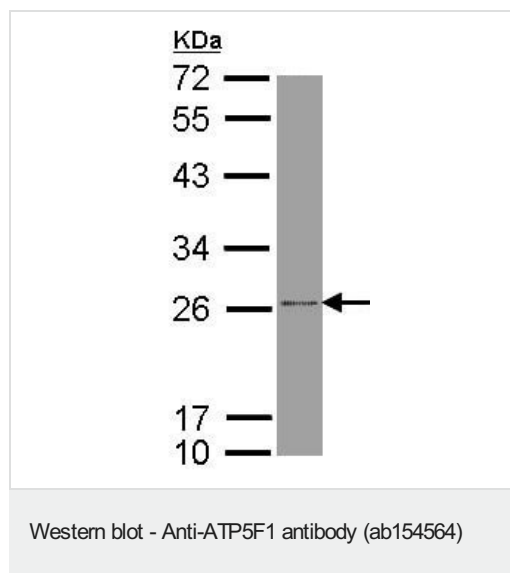
Sequence similarities

Belongs to the eukaryotic ATPase B chain family.

Cellular localization

Mitochondrion. Mitochondrion inner membrane.

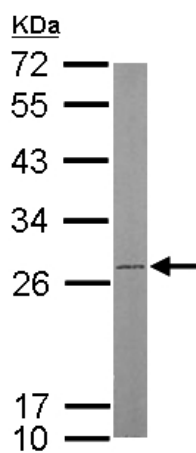
Images



Anti-ATP5F1 antibody (ab154564) at 1/1000 dilution + MOLT4 whole cell lysate at 30 µg

Predicted band size: 29 kDa

12% SDS PAGE

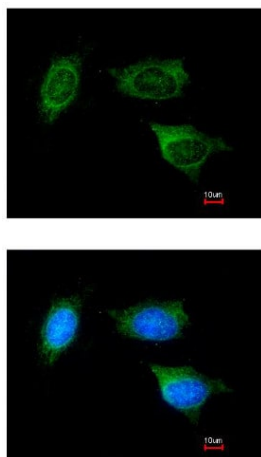


Western blot - Anti-ATP5F1 antibody (ab154564)

Anti-ATP5F1 antibody (ab154564) at 1/500 dilution + Mouse brain whole cell lysate at 50 µg

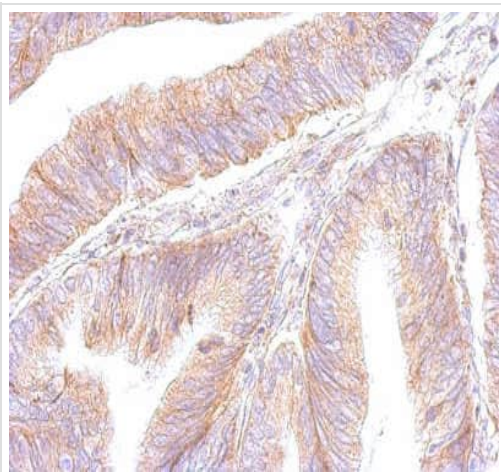
Predicted band size: 29 kDa

12% SDS PAGE



Immunocytochemistry/ Immunofluorescence - Anti-ATP5F1 antibody (ab154564)

Immunofluorescent analysis of methanol-fixed HeLa cells labeling ATP5F1 with ab154564 at 1/200 dilution. Lower panel co-stained with Hoechst 33342.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5F1 antibody (ab154564)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labeling ATP5F1 with ab154564 at 1/500 dilution.

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