abcam

Product datasheet

Anti-ATP5J antibody ab224139

3 Images

Overview

Product name	Anti-ATP5J antibody
Description	Rabbit polyclonal to ATP5J
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Cynomolgus monkey, Orangutan
Immunogen	Recombinant fragment corresponding to Human ATP5J aa 1-104. Sequence: MILQRLFRFSSVIRSAVSVHLRRNIGVTAVAFNKELDPIQKL FVDKIREY KSKRQTSGGPVDASSEYQQELERELFKLKQMFGNADMN TFPTFKFEDPKF EVIE Database link: P18859 Run BLAST with Run BLAST with
Positive control	WB: RT4 and U-251 MG cell lysates; Human liver and tonsil tissue lysates. IHC-P: Human liver tissue. ICC/IF: U-2 OS cells.
General notes	Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough. Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility. We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee. In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for. We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee. Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee. 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, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab224139** in the following tested applications.

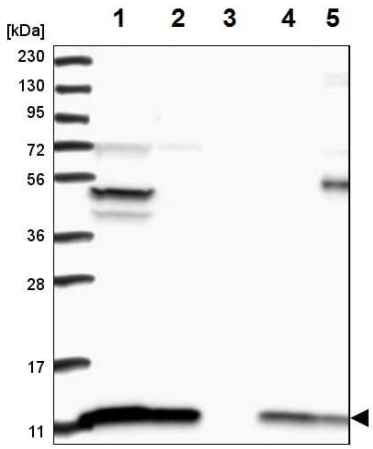
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.04 - 0.4 µg/ml. Predicted molecular weight: 13 kDa.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		Use a concentration of 0.25 - 2 µg/ml. Fixation/Permeabilization: PFA/Triton X-100.

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. Also involved in the restoration of oligomycin-sensitive ATPase activity to depleted F1-F0 complexes.
Sequence similarities	Belongs to the eukaryotic ATPase subunit F6 family.
Cellular localization	Mitochondrion. Mitochondrion inner membrane.

Images



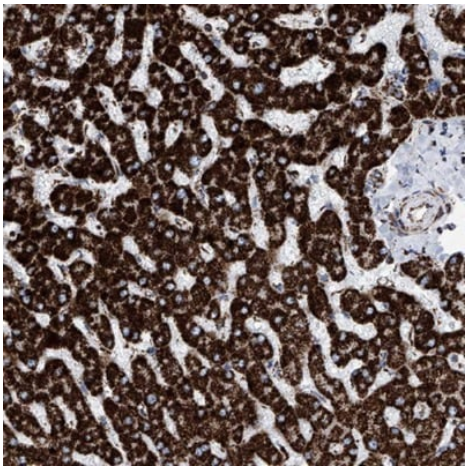
Western blot - Anti-ATP5J antibody (ab224139)

All lanes : Anti-ATP5J antibody (ab224139) at 1/100 dilution

Lane 1 : RT4 (human urinary bladder cancer cell line) cell lysate
Lane 2 : U-251 MG (human brain glioma cell line) cell lysate
Lane 3 : Human plasma (IgG/HSA depleted)
Lane 4 : Human liver tissue lysate
Lane 5 : Human tonsil tissue lysate

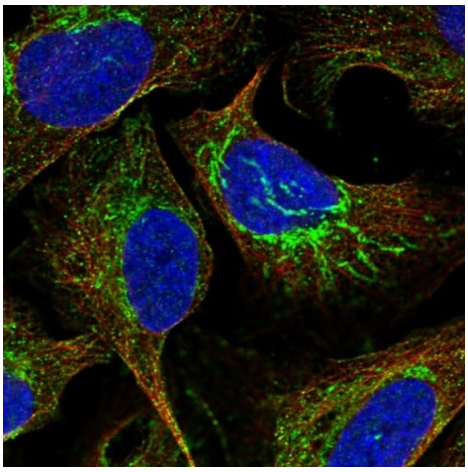
Developed using the ECL technique.

Predicted band size: 13 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP5J antibody (ab224139)

Paraffin-embedded human liver tissue stained for ATP5J using ab224139 at 1/500 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence - Anti-ATP5J antibody (ab224139)

PFA-fixed, Triton X-100 permeabilized U-2 OS (human bone osteosarcoma epithelial cell line) cells stained for ATP5J (green) using ab224139 at 4 µg/ml in ICC/IF.

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