

ATPB Rabbit pAb

Catalog No.: A5769 **6 Publications**

Basic Information

Observed MW

52kDa

Calculated MW

57kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F₁, and the membrane-spanning component, F_o, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel consists of three main subunits (a, b, c). This gene encodes the beta subunit of the catalytic core.

Recommended Dilutions

WB	1:10000 - 1:30000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

506

Swiss Prot

P06576

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 230-529 of human ATPB (NP_001677.2).

Synonyms

ATP5B; ATPMB; ATPSB; HUMOP2; HEL-S-271; ATPB

Contact

 | www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

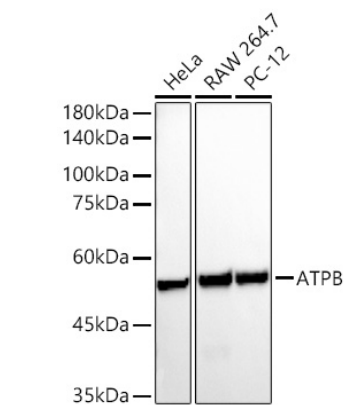
Affinity purification

Storage

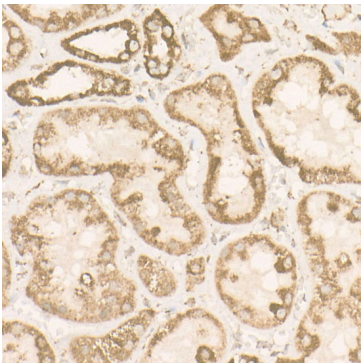
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

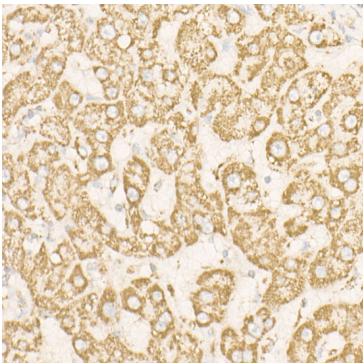
Validation Data



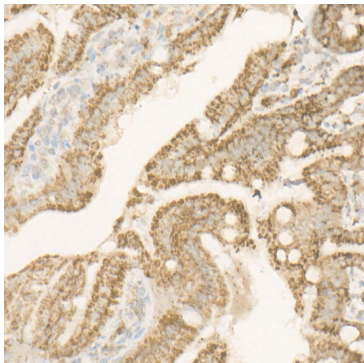
Western blot analysis of various lysates using ATPB Rabbit pAb (A5769) at 1:25000 dilution.
Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution.
Lysates / proteins: 25 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection:ECL Basic Kit (RM00020).
Exposure time: 10s.



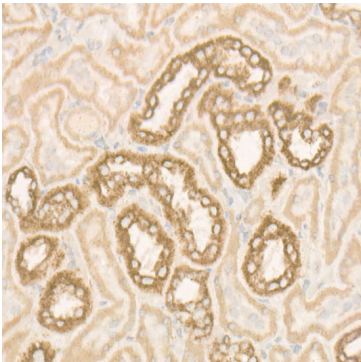
Immunohistochemistry analysis of ATPB in paraffin-embedded human kidney using ATPB Rabbit pAb (A5769) at dilution of 1:300 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



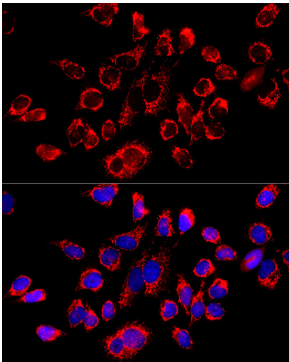
Immunohistochemistry analysis of ATPB in paraffin-embedded human liver using ATPB Rabbit pAb (A5769) at dilution of 1:300 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATPB in paraffin-embedded mouse intestine using ATPB Rabbit pAb (A5769) at dilution of 1:300 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATPB in paraffin-embedded rat kidney using ATPB Rabbit pAb (A5769) at dilution of 1:300 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of HeLa cells using ATPB Rabbit pAb (A5769) at dilution of 1:50 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.