

## Anti-ATP5B Antibody (8V910)

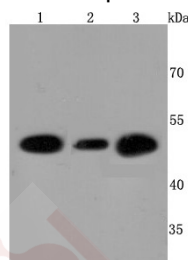
### Product Details

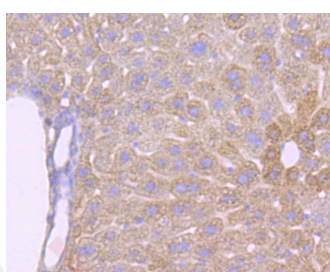
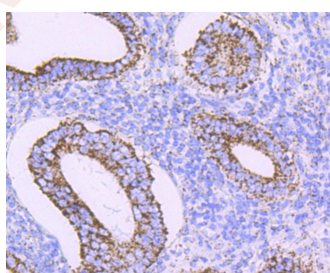
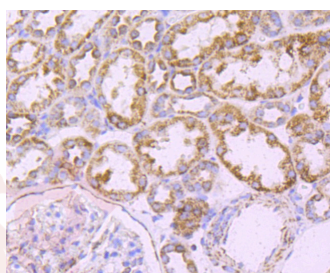
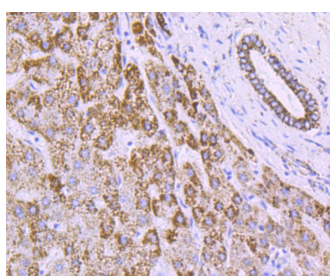
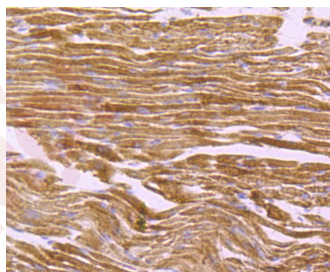
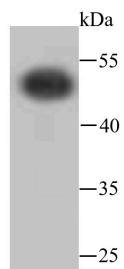
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,zebrafish
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 53 kDa.
Clone:	8V910
Purification:	ProA affinity purified

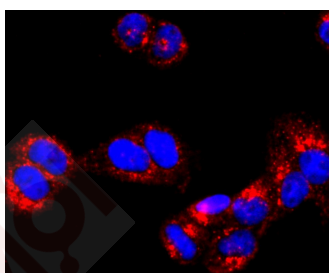
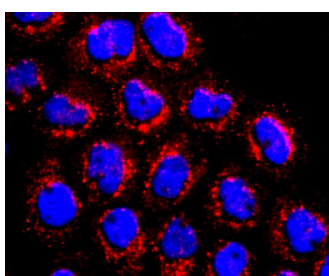
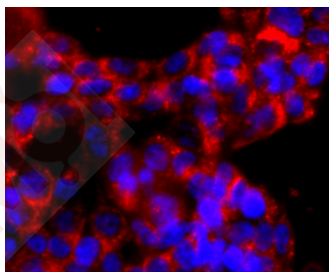
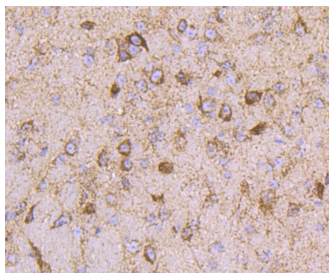
### Applications

1. Western blot analysis of ATPB on different cells lysates using anti-ATPB antibody at 1/500 dilution. Positive control: Line1: Hela, Line2: HepG2, Line3: 293T.
2. Western blot analysis of ATPB on Zebrafish cells lysates using anti-ATPB antibody at 1/500 dilution.
3. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-ATPB antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-ATPB antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-ATPB antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-ATPB antibody. Counter stained with hematoxylin.
7. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-ATPB antibody. Counter stained with hematoxylin.
8. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-ATPB antibody. Counter stained with hematoxylin.
9. ICC staining ATPB in 293T cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
10. ICC staining ATPB in A431 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
11. ICC staining ATPB in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Verified Activity:







Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:100-500; IP: 1:10-50

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#### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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#### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P06576

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#### Research Background

Mitochondrial membrane ATP synthase (F<sub>1</sub>F<sub>0</sub>) 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<sub>1</sub> - containing the extramembraneous catalytic core, and F<sub>0</sub> - 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<sub>1</sub> is coupled via a rotary mechanism of the central stalk subunits to proton translocation. Subunits alpha and beta form the catalytic core in F<sub>1</sub>. Rotation of the central stalk against

## A DRUG SCREENING EXPERT

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the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

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