



## Mouse Monoclonal Antibody **ATPB** conjugated to Sepharose Beads

CatalogNo: **ANT8103-S**

Size 200ul

Storage Store at 4 °C for frequent use

### Description

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sepharose beads. It is useful for immunoprecipitation assays.

### **ATPB (ANT0069R) Rabbit mAb**

Formulation: 50% slurry in PBS pH 7.2 with 0.01mg NaN<sub>3</sub> preservative.

#### Host Species

- Rabbit
- Human, Mouse, Rat,

#### Reactivity

- WB, IHC, IF, IP, ELISA

#### Applications

#### MW

- 57kD (Calculated)
  - IgG, Kappa
- 52kD (Observed)

#### Isotype

## **Recommended Dilution Ratios**

### **IP**

## **Basic Information**

#### Clonality

Monoclonal

Immunogen Information

Specificity

Endogenous

Gene name

ATP5B ATPMB ATPSB

Protein Name

ATP synthase subunit beta, mitochondrial (EC 3.6.3.14)

Organism	Gene ID	UniProt ID
Human	<a href="#">506;</a>	<a href="#">P06576;</a>
Mouse	<a href="#">11947;</a>	<a href="#">P56480;</a>
Rat	<a href="#">171374;</a>	<a href="#">P10719;</a>

Cellular

Localization

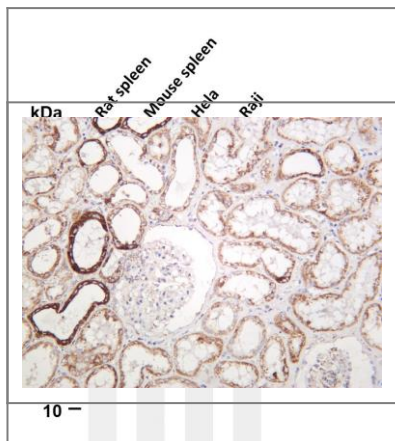
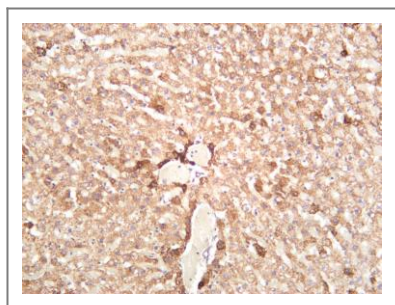
Mitochondrion inner membrane

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. Subunits alpha and beta form the catalytic core in F(1). Rotation of the central stalk against the surrounding alpha(3)beta(3) subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

## Validation Data

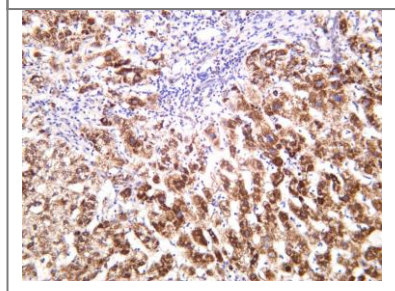
Rat liver was stained with anti-ATPB (ANT0069R) rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ATPB (ANT0069R) antibody. The HRPconjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: Mouse spleen Lane 3: HeLa Lane 4: Raji

Predicted band size: 57kDa Observed band size: 52kDa

Human kidney was stained with anti-ATPB (ANT0069R) rabbit antibody



Human liver was stained with anti-ATPB (ANT0069R) rabbit antibody

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