

## ATPB Rabbit pAb

CatalogNo: YN5748

### | Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB

#### MW

- 58kD (Calculated)

#### Isotype

- IgG

### | Recommended Dilution Ratios

WB 1:500-2000

### | Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### | Basic Information

**Clonality** Polyclonal

### | Immunogen Information

**Immunogen** Synthesized peptide derived from human ATPB

**Specificity** This antibody detects endogenous levels of ATPB at Human, Mouse, Rat

### | Target Information

**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 ; Peripheral membrane protein ; Matrix side .

**Function** 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 the surrounding alpha<sub>3</sub>beta<sub>3</sub> subunits leads to hydrolysis of ATP in three separate catalytic sites on the beta subunits.

## Validation Data

## Contact information

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