ATPB (PT0169R) PT™ Rabbit mAb

CatalogNo: YM8103 Recombinant KD/KO Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat,

Applications
- WB,IHC,IF,IP,ELISA

MW
- 57kD (Calculated)

52kD (Observed)

Isotype
- IgG,Kappa

Recommended Dilution Ratios

IHC 1:200-1:1000
WB 1:1000-1:5000
IF 1:200-1:1000
ELISA 1:5000-1:20000
IP 1:50-1:200,

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

Basic Information

Clonality	Monoclonal
Clone Number	PT0169R

Immunogen Information

Specificity	Endogenous

Target Information

Gene name ATP5B ATPMB ATPSB

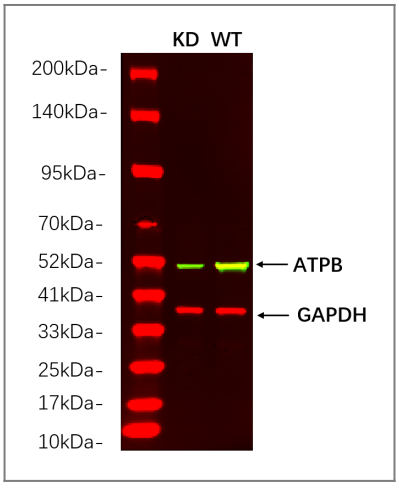
Protein Name ATP synthase subunit beta, mitochondrial (EC 3.6.3.14)

Organism	Gene ID	UniProt ID
Human	506;	P06576;
Mouse	11947;	P56480;
Rat	171374;	P10719;

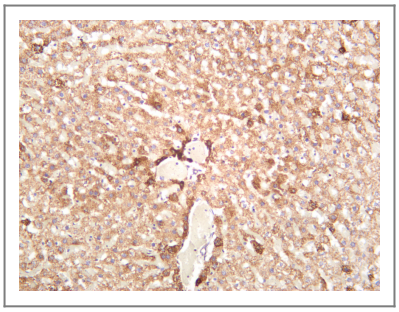
Cellular Localization Mitochondrion inner membrane

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.

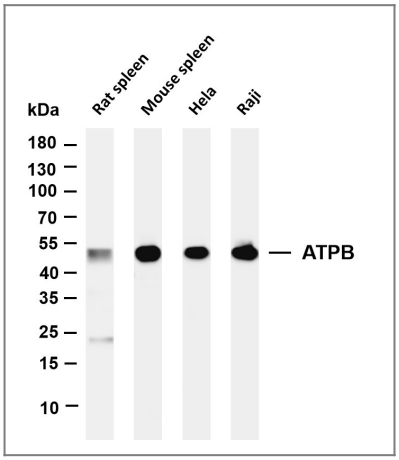
Validation Data



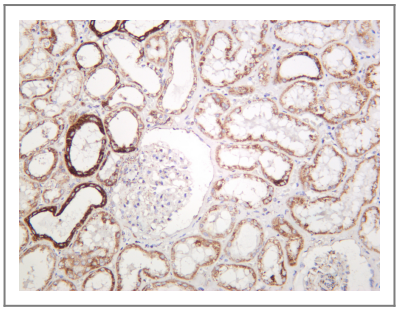
Western blot analysis of lysates from HAP1 WT and knockdown cell. (Green) primary antibody was diluted at 1:5000, 4°over night, Dylight 800 secondary antibody(Immunoway:RS23920)was diluted at 1:10000, 37° 1hour. (Red) GAPDH Monoclonal Antibody(5B7) (Immunoway:YM3029) antibody was diluted at 1:5000 as loading control, 4° over night, Dylight 680 secondary antibody(Immunoway:RS23710)was diluted at 1:10000, 37° 1hour.



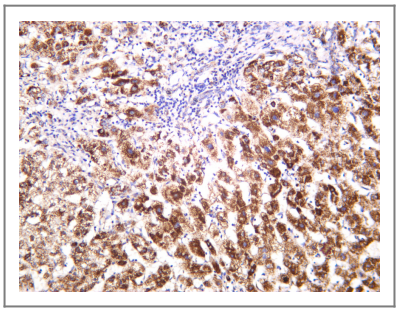
Rat liver was stained with anti-ATPB rabbit antibody



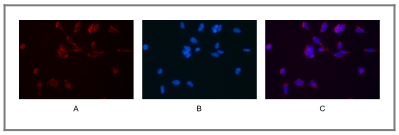
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-ATPB antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat spleen Lane 2: Mouse spleen Lane 3: Hela Lane 4: Raji Predicted band size: 57kDa Observed band size: 52kDa



Human kidney was stained with anti-ATPB rabbit antibody



Human liver was stained with anti-ATPB rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: ATPB antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

Contact information

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Please scan the QR code to access additional product information:
ATPB (PT0169R) PT™ Rabbit mAb