

**ATPB Antibody**  
**Rabbit mAb**  
**Catalog # AP91189**

## Specification

### ATPB Antibody - Product Information

Application	WB, IHC, ICC, IP
Primary Accession	<a href="#">P06576</a>
Reactivity	Rat
Clonality	Monoclonal
<b>Other Names</b>	
ATP 5B; ATP synthase subunit beta mitochondrial; ATPB; ATPMB; ATPSB;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	56560 Da

### ATPB Antibody - Additional Information

Dilution	WB~~1:1000 IHC~~1:100~500 ICC~~N/A IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ATPB
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

### ATPB Antibody - Protein Information

**Name** ATP5F1B ([HGNC:830](#))

#### Function

Catalytic subunit beta, of the mitochondrial membrane ATP synthase complex (F(1)F(0) ATP synthase or Complex V) that 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 (Probable) (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). ATP synthase complex consist of a soluble F(1) head domain - the catalytic core - and a membrane F(1) domain - the membrane proton channel (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). These two

domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>). 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 (Probable). In vivo, can only synthesize ATP although its ATP hydrolase activity can be activated artificially in vitro (By similarity). With the subunit alpha (ATP5F1A), forms the catalytic core in the F(1) domain (PubMed:<a href="http://www.uniprot.org/citations/37244256" target="\_blank">37244256</a>).

#### Cellular Location

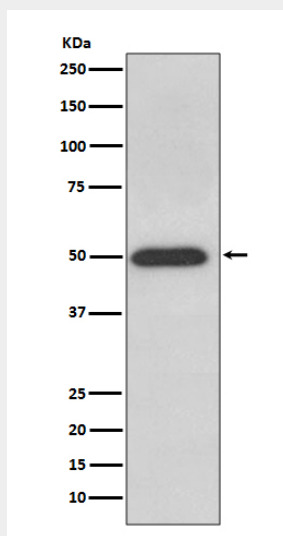
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P00829}; Matrix side {ECO:0000250|UniProtKB:P00829, ECO:0000269|PubMed:25168243}

#### ATPB Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### ATPB Antibody - Images



Western blot analysis of ATPB expression in HeLa cell lysate.