

ATPB Antibody

Rabbit mAb Catalog # AP91189

Product Information

Application WB, IHC, IF, ICC, IP, IHF

Primary Accession <u>P06576</u>

Reactivity Rat, Human, Mouse

Clonality Monoclonal

Other Names ATP 5B; ATP synthase subunit beta mitochondrial; ATPB; ATPMB; ATPSB;

IsotypeRabbit IgGHostRabbitCalculated MW56560

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50

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.

Protein Information

Name ATP5F1B (HGNC:830)

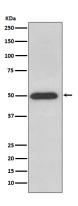
Function Catalytic subunit beta, of the mitochondrial membrane ATP synthase

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:37244256). 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:37244256). These two domains are linked by a central stalk rotating inside the F(1) region and a stationary peripheral stalk (PubMed:37244256). 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:37244256).

Cellular Location Mitochondrion inner membrane; Peripheral membrane protein

Images



Western blot analysis of ATPB expression in HeLa cell lysate.

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