

KD-Validated Anti-ATP5B Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1323**Specification****KD-Validated Anti-ATP5B Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P06576
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 57 kDa , observed, 50 kDa KDa
Gene Name	ATP5F1B
Aliases	ATP5F1B; ATP Synthase F1 Subunit Beta; ATP5B; ATPSB; ATP Synthase, H ⁺ Transporting, Mitochondrial F1 Complex, Beta Polypeptide; ATP Synthase Subunit Beta, Mitochondrial; ATPMB; Mitochondrial ATP Synthetase, Beta Subunit; Mitochondrial ATP Synthase Beta Subunit; Epididymis Secretory Protein Li 271; EC 3.6.3.14; EC 7.1.2.2; HEL-S-271; EC 3.6.3; HUMOP2
Immunogen	A synthesized peptide derived from human ATPB

KD-Validated Anti-ATP5B Rabbit Monoclonal Antibody - Additional Information

Gene ID	506
Other Names	
ATP synthase F(1) complex subunit beta, mitochondrial, 7.1.2.2, ATP synthase F1 subunit beta {ECO:0000312 HGNC:HGNC:830}, ATP5F1B (HGNC:830)	

KD-Validated Anti-ATP5B Rabbit Monoclonal 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: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

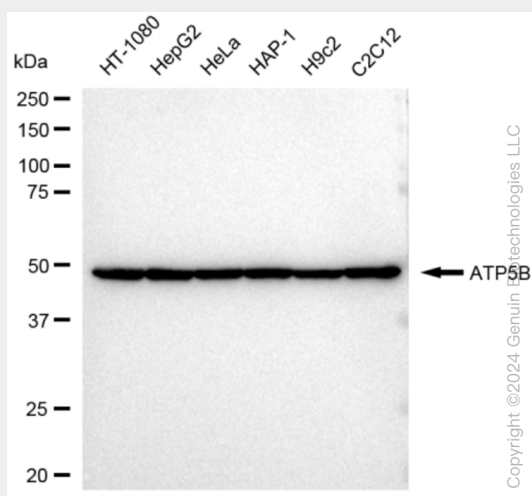
Mitochondrion inner membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:P00829}; Matrix side {ECO:0000250|UniProtKB:P00829, ECO:0000269|PubMed:25168243}

KD-Validated Anti-ATP5B Rabbit Monoclonal 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](#)

KD-Validated Anti-ATP5B Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ATP5B antibody (Cat#AGI1323). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ATP5B antibody (Cat#AGI1323, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

