

**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10)**  
**Mouse Anti Human Monoclonal Antibody**  
**Catalog # ALS18291****Specification**

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**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">P06576</a>
Predicted	Human, Rat, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	56560

**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) - Additional Information****Gene ID** 506**Alias Symbol** **ATP5B****Other Names**

ATP5B, ATPMB, ATPSB, Beta-mtATPase, F0F1-ATP synthase beta subunit, ATP synthase beta subunit

**Target/Specificity**

Human ATP5B

**Reconstitution & Storage**

Protein A/G purified

**Precautions**

Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) - Protein Information****Name** ATP5F1B ([HGNC:830](#))**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.

**Cellular Location**

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

**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) - 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](#)

**Anti-ATP5B / ATP Synthase Beta Antibody (clone 6C10) - Images**