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

Mouse Anti Human Monoclonal Antibody
Catalog # ALS18291

Product Information

Application	WB, IHC-P
Primary Accession	P06576
Predicted	Human, Rat, Dog
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Clone Names	6C10
Calculated MW	56560

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.

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}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.