10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-ATP5C1 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2016

Product Information

Application	WB, FC
Primary Accession	P36542
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB7990
Calculated MW	32996
Gene Name	ATP5F1C
Aliases	ATP5F1C; ATP Synthase F1 Subunit Gamma; ATP5CL1; ATP5C1; ATP5C; ATP Synthase, H+ Transporting, Mitochondrial F1 Complex, Gamma Polypeptide 1; ATP Synthase Subunit Gamma, Mitochondrial; F-ATPase Gamma Subunit; Mitochondrial ATP Synthase, Gamma Subunit 1; ATP Synthase Gamma Chain, Mitochondrial
Immunogen	Recombinant protein of human ATP5C1

Additional Information

Gene ID	509
Other Names	ATP synthase F(1) complex subunit gamma, mitochondrial, ATP synthase F1 subunit gamma {ECO:0000312|HGNC:HGNC:833}, F-ATPase gamma subunit, ATP5F1C (HGNC:833)

Protein Information

Name	ATP5F1C (HGNC:833)
Function	Subunit gamma, 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 (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 central stalk subunit delta, is essential for the biogenesis of F(1) catalytic part of the ATP synthase complex namely in the formation of F1 assembly intermediate (PubMed:29499186).

Cellular Location	Mitochondrion inner membrane {ECO:0000250|UniProtKB:P05631}; Peripheral membrane protein {ECO:0000250|UniProtKB:P05631}; Matrix side {ECO:0000250|UniProtKB:P05631}
Tissue Location	Isoform Heart is expressed specifically in the heart and skeletal muscle, which require rapid energy supply. Isoform Liver is expressed in the brain, liver and kidney. Isoform Heart and Isoform Liver are expressed in the skin, intestine, stomach and aorta

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