



# Anti-ATP5B monoclonal antibody, clone 8F4G3 (DCABH-275)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Mouse monoclonal to ATPB
<b>Antigen Description</b>	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.
<b>Immunogen</b>	Native E. coli ATPB.
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Escherichia coli
<b>Clone</b>	8F4G3
<b>Purification</b>	The purity of This antibody is near homogeneity, as judged by SDS-PAGE. The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB

<b>Positive Control</b>	Isolated mitochondria from Human heart, bovine heart, rat heart, mouse heart, and HepG2 cells.
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	Preservative: 0.02% Sodium azide; Constituent: HBS
<b>Preservative</b>	0.02% Sodium Azide
<b>Storage</b>	Store at +4°C. Do not freeze.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Atp5b ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit [ Mus musculus ]</a>
<b>Official Symbol</b>	ATP5B
<b>Synonyms</b>	ATP5B; ATP synthase, H+ transporting mitochondrial F1 complex, beta subunit; ATP synthase subunit beta, mitochondrial; mitochondrial ATP synthase, H+ transporting F1 complex beta subunit; ATP synthase, H+ transporting mitochondrial F1 complex, alpha subunit;
<b>Entrez Gene ID</b>	<a href="#">11947</a>
<b>Protein Refseq</b>	<a href="#">NP_058054</a>
<b>UniProt ID</b>	<a href="#">P56480</a>
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Electron Transport Chain, organism-specific biosystem; F-type ATPase, eukaryotes, organism-specific biosystem; Formation of ATP by chemiosmotic coupling, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem;
<b>Function</b>	ATP binding; ATPase activity; MHC class I protein binding; calcium ion binding; eukaryotic cell surface binding; hydrogen ion transporting ATP synthase activity, rotational mechanism; hydrogen-exporting ATPase activity, phosphorylative mechanism; hydrolase activity; hydrolase activity, acting on acid anhydrides, catalyzing transmembrane movement of substances; lipoprotein particle receptor activity; nucleoside-triphosphatase activity; nucleotide binding; proton-transporting ATPase activity, rotational mechanism;