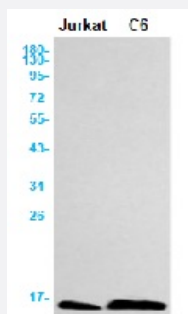


RecomAb™

ATP5MC1 recombinant monoclonal antibody, clone R02-6G1

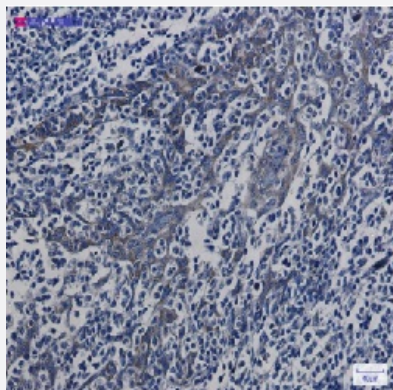
Catalog # RAB01578 Size 100 uL

Applications



Western Blot

Western blot analysis of ATP5G1/G2/G3 in Jurkat, C6 lysates using human ATP5G1/G2/G3 recombinant monoclonal antibody, clone R02-6G1 (Cat # RAB01578).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of Human tonsil with ATP5G1/G2/G3 recombinant monoclonal antibody, clone R02-6G1 (Cat # RAB01578).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human ATP5G1/G2/G3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human ATP5G1/G2/G3
Theoretical MW (kDa)	Calculated MW: 14 kD
Reactivity	Human

Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The Immunohistochemistry (1:50-1:100) analysis is 1:50-1:100.The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4, (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of ATP5G1/G2/G3 in Jurkat, C6 lysates using human ATP5G1/G2/G3 recombinant monoclonal antibody, clone R02-6G1 (Cat # RAB01578).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) of Human tonsil with ATP5G1/G2/G3 recombinant monoclonal antibody, clone R02-6G1 (Cat # RAB01578).

- Immunoprecipitation

Gene Info — ATP5G1

Entrez GeneID	516
Protein Accession#	P05496/Q06055/P48201
Gene Name	ATP5G1
Gene Alias	ATP5A, ATP5G
Gene Description	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit C1 (subunit 9)
Omim ID	603192

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq]

Other Designations

ATP synthase lipid-binding protein, mitochondrial|ATP synthase proteolipid P1|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C1|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 1|ATPase protein 9|AT

Gene Info — ATP5G2

Entrez GeneID

[517](#)

Protein Accession#

[P05496/Q06055/P48201](#)

Gene Name

ATP5G2

Gene Alias

-

Gene Description

ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C2 (subunit 9)

Omim ID

[603193](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, F0, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and single representatives of the gamma, delta, and epsilon subunits. The proton channel likely has nine subunits (a, b, c, d, e, f, g, F6 and 8). There are three separate genes which encode subunit c of the proton channel and they specify precursors with different import sequences but identical mature proteins. The protein encoded by this gene is one of three precursors of subunit c. Alternatively spliced transcript variants encoding different isoforms have been identified. This gene has multiple pseudogenes. [provided by RefSeq]

Other Designations

ATP synthase lipid-binding protein, mitochondrial|ATP synthase proteolipid P2|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C2|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit c (subunit 9), isoform 2|ATPase protein 9|AT

Gene Info — ATP5G3

Entrez GeneID [518](#)

Protein Accession# [P05496/Q06055/P48201](#)

Gene Name ATP5G3

Gene Alias MGC125738, P3

Gene Description ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C3 (subunit 9)

Omim ID [602736](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, utilizing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, comprising the proton channel. The catalytic portion of mitochondrial ATP synthase consists of 5 different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alpha, 3 beta, and a single representative of the other 3. The proton channel seems to have nine subunits (a, b, c, d, e, f, g, F6 and 8). This gene is one of three genes that encode subunit c of the proton channel. Each of the three genes have distinct mitochondrial import sequences but encode the identical mature protein. Alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq]

Other Designations

ATP synthase lipid-binding protein, mitochondrial|ATP synthase proteolipid P3|ATP synthase subunit 9|ATP synthase, H⁺ transporting, mitochondrial F0 complex, subunit C3|ATP synthase, mitochondrial, C subunit-3|ATPase protein 9|ATPase subunit C

Pathway

- [Metabolic pathways](#)
- [Metabolic pathways](#)
- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)
- [Oxidative phosphorylation](#)
- [Oxidative phosphorylation](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)