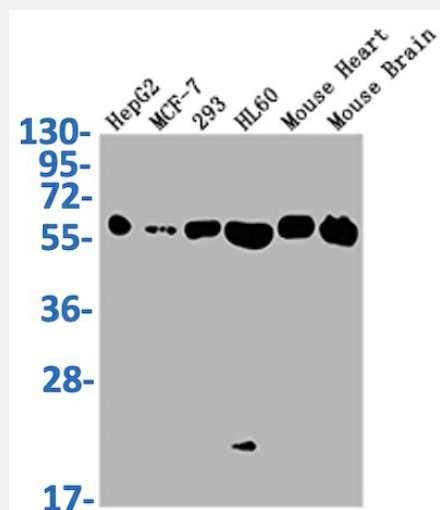


RecomAb™

ATP5A1 recombinant monoclonal antibody, clone 5G11

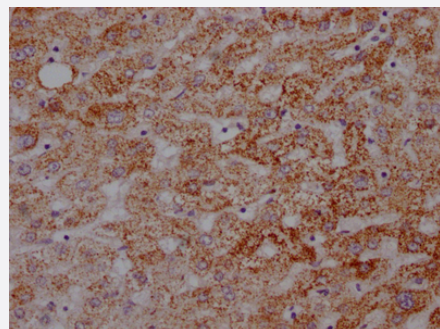
Catalog # RAB04073 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: HepG2 whole cell lysate; Lane 2: MCF-7 whole cell lysate; Lane 3: 293 whole cell lysate; Lane 4: HL60 whole cell lysate; Lane 5: Mouse Heart tissue; Lane 6: Mouse brain tissue.



Immunohistochemistry

Immunohistochemistry image of ATP5A1 recombinant monoclonal antibody, clone 5G11 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human and mouse ATP5A1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to full length human ATP5A1.
Reactivity	Human, Mouse

Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °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 Lane 1: HepG2 whole cell lysate; Lane 2: MCF-7 whole cell lysate; Lane 3: 293 whole cell lysate; Lane 4: HL60 whole cell lysate; Lane 5: Mouse Heart tissue; Lane 6: Mouse brain tissue.

- Immunohistochemistry

Immunohistochemistry image of ATP5A1 recombinant monoclonal antibody, clone 5G11 diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica Bond™ system.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — ATP5A1

Entrez GeneID	498
Protein Accession#	P25705
Gene Name	ATP5A1
Gene Alias	ATP5A, ATP5AL2, ATPM, MOM2, OMR, ORM, hATP1
Gene Description	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
Omim ID	164360

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes a subunit of mitochondrial ATP synthase. Mitochondrial ATP synthase catalyzes ATP synthesis, using 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, F_o, 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 consists of three main subunits (a, b, c). This gene encodes the alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the same protein have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16. [provided by RefSeq]

Other Designations

ATP synthase alpha chain, mitochondrial|ATP synthase, H⁺ transporting, mitochondrial F₁ complex, alpha subunit|ATP synthase, H⁺ transporting, mitochondrial F₁ complex, alpha subunit, isoform 1, cardiac muscle|ATP synthase, H⁺ transporting, mitochondrial F

Pathway

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

Disease

- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Prostatic Neoplasms](#)