

Cat. No:	MAB-94610
Size:	100 ug
Clone:	15H4C4
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human ATP5A1
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:50 - 1:100 Immunoprecipitation: 1:50 - 1:200
Molecular Weight:	53kDa
Purification:	Aff. Pur.
Synonyms:	ATP5A1; ATP5A; ATP5AL2; ATPM; COXPD22; HEL-S-123m; MC5DN4; MOM2; OMR; ORM; hATP1; ATP synthase subunit alpha, mitochondrial

Background:

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, 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 consists of three main subunits (a, b, c). This gene encodes the alpha subunit of the catalytic core. Alternatively spliced transcript variants encoding the different isoforms have been identified. Pseudogenes of this gene are located on chromosomes 9, 2, and 16.

Form:

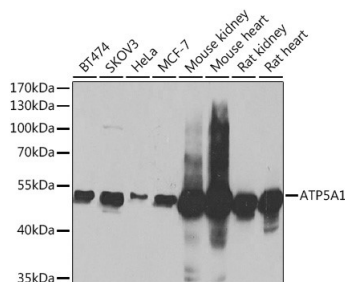
Liquid

Buffer:

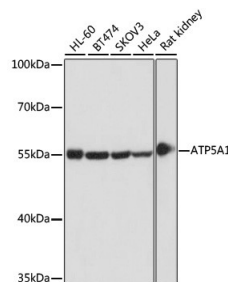
PBS with 0.02% sodium azide, 50% glycerol, pH7.

Storage:

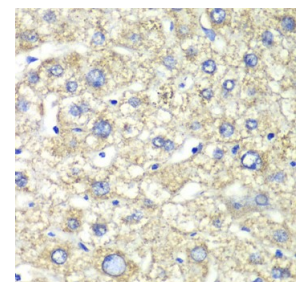
Store at -20°C. Avoid freeze / thaw cycles.



WB analysis of extracts of various cell lines, using ATP5A1 Antibody at 1:1000 dilution.

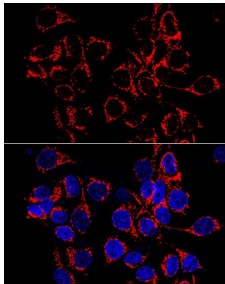


WB analysis of extracts of various cells, using ATP5A1 antibody at 1:1000 dilution ratio through one-step method.



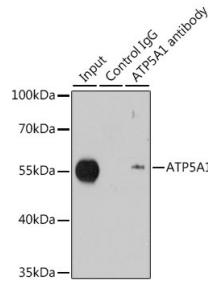
immunohistochemistry of paraffin-embedded human liver injury using ATP5A1 antibody at dilution of 1:100

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10,000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico plus Kit
Exposure time: 1s

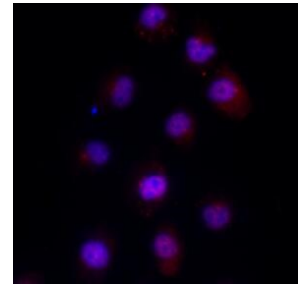


Immunofluorescence analysis of HeLa cells using ATP5A1 antibody at dilution of 1:100 (60x lens). Blue: DAPI for nuclear staining.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL West Pico Kit
Exposure time: 1s



Immunoprecipitation analysis of 200ug extracts of MCF-7 cells using 1ug ATP5A1 antibody .WB was performed from the immunoprecipitate using ATP5A1 antibody at a dilution of 1:1000.



Review for ATP5A1 Rabbit mAb
Experiment Type:
Immunofluorescence(IF)
Sample: HK2
Description: Immunofluorescence analysis of HK2 cells using ATP5A1 antibody at 1:100 dilution. The positive signal is Golgi staining.

References

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:PloS one

Application:IHC

IF:2.806

Species:Rattus norvegicus

PMID:29590132

Title:GLP-1 receptor agonist ameliorates obesity-induced chronic kidney injury via restoring renal metabolism homeostasis.

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Life Sciences

Application:WB, IF

IF:2.936

Species:Homo sapiens

PMID:29733848

Title:Polyacetylene glycoside attenuates ischemic kidney injury by co-inhibiting inflammation, mitochondria dysfunction and lipotoxicity

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Acta Pharmacologica Sinica

Application:WB

IF:4.01

Species:Mus musculus

PMID:31937931

Title:The hypoglycemic mechanism of catalpol involves increased AMPK-mediated mitochondrial biogenesis

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Oxidative Medicine and Cellular Longevity

Application:WB

IF:4.86

Species:Homo sapiens

PMID:32104538

Title:A Newly Synthesized Rhamnoside Derivative Alleviates Alzheimer's Amyloid- β -Induced Oxidative Stress, Mitochondrial Dysfunction, and Cell Senescence through Upregulating SIRT3

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Theranostics

Application:WB

IF:8.063

Species:Homo sapiens,Mus musculus

PMID:32483422

Title: Activation of TFEB-mediated autophagy by trehalose attenuates mitochondrial dysfunction in cisplatin-induced acute kidney injury.

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Frontiers in Cellular Neuroscience

Application:IF

IF:3.9

Species:Homo sapiens

PMID:31327963

Title:Mitochondria Are Dynamically Transferring Between Human Neural Cells and Alexander Disease-Associated GFAP Mutations Impair the Astrocytic Transfer.

References for ATP5A1 Rabbit mAb

Product:ATP5A1 Rabbit mAb

Journal:Frontiers in Cellular and Infection Microbiology

Application:WB

IF:3.518

Species:Homo sapiens

PMID:31921708

Title:Hepatitis E Virus Induces Brain Injury Probably Associated With Mitochondrial Apoptosis.

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