ATP5A1 Rabbit mAb

Catalog No.: A11217 Recombinant 12 Publications



Basic Information

Observed MW

60kDa

Calculated MW

60kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IF-P,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0549

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 multisubunit 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 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.

Recommended Dilutions

WB 1:10000 - 1:40000

IP 0.5μg-4μg antibody for 400μg-600μg extracts of

whole cells

IF/ICC 1:200 - 1:2000

IF-P 1:200 - 1:2000

IHC-P 1:200 - 1:2000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID498

Swiss Prot
P25705

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m

Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

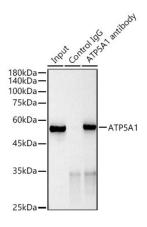
Storage

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

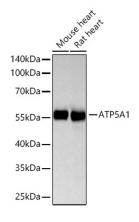
Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cr
•	www.abclonal.com.cr



Immunoprecipitation analysis of 600 μ g extracts of Mouse heart using 3 μ g ATP5A1 antibody (A11217). Western blot was performed from the immunoprecipitate using ATP5A1 antibody (A11217) at a dilution of 1:1000.



Western blot analysis of various lysates using ATP5A1 Rabbit mAb (A11217) at 1:10000 dilution incubated overnight at 4° C.

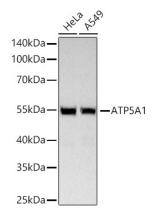
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20s.



Western blot analysis of various lysates using ATP5A1 Rabbit mAb (A11217) at 1:10000 dilution incubated overnight at 4° C.

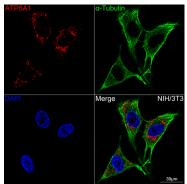
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

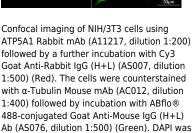
Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

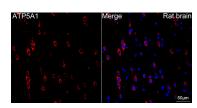
Detection: ECL Basic Kit (RM00020).

Exposure time: 45s.

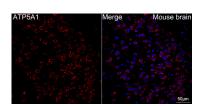




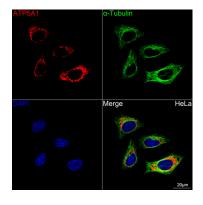
used for nuclear staining (Blue). Objective:



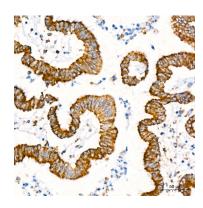
Confocal imaging of paraffin-embedded Rat brain tissue using ATP5A1 Rabbit mAb (A11217, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



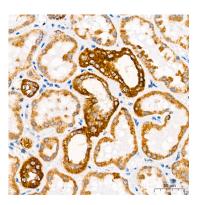
Confocal imaging of paraffin-embedded Mouse brain tissue using ATP5A1 Rabbit mAb (A11217, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



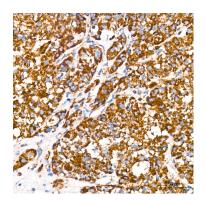
Confocal imaging of HeLa cells using ATP5A1 Rabbit mAb (A11217, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



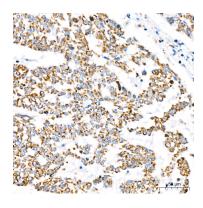
Immunohistochemistry analysis of paraffinembedded Human colon carcinoma tissue using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



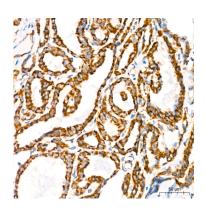
Immunohistochemistry analysis of paraffinembedded Human kidney tissue using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Human liver cancer tissue using



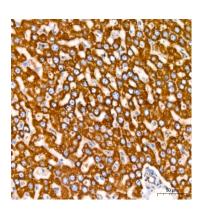
Immunohistochemistry analysis of paraffinembedded Human lung squamous carcinoma



Immunohistochemistry analysis of paraffinembedded Human thyroid cancer tissue

ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

tissue using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining. using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat liver tissue using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.