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ATP5A1 Rabbit mAb

Catalog No.: A11217 Recombinant 5 Publications

Basic Information

Observed MW
55kDa

Calculated MW
60kDa

Category
Primary antibody

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

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 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.

Recommended Dilutions

WB	1:500 - 1:1000
IHC-P	1:50 - 1:200
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 400μg-600μg extracts of whole cells

Immunogen Information

Gene ID
498

Swiss Prot
P25705

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 200-300 of human ATP5A1 (P25705).

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

Contact

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Product Information

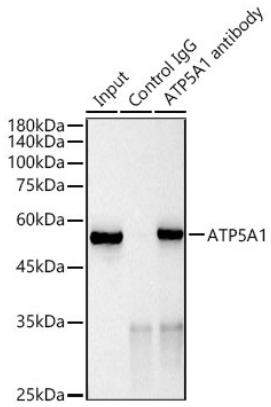
Source
Rabbit

Isotype
IgG

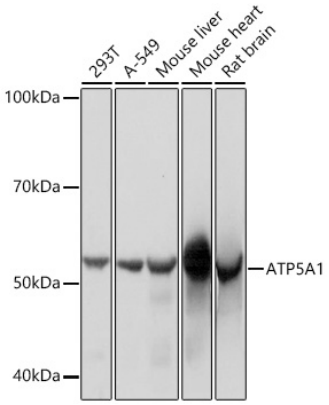
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

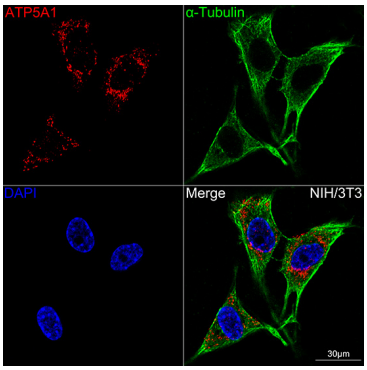
Validation Data



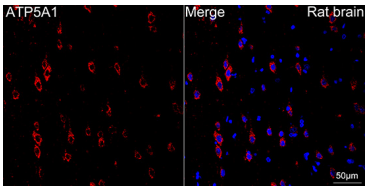
Immunoprecipitation analysis of 600 µg extracts of Mouse heart using 3 µg ATP5A1 antibody (A11217). Western blot was performed from the immunoprecipitate using ATP5A1 antibody (A11217) at a dilution of 1:1000.



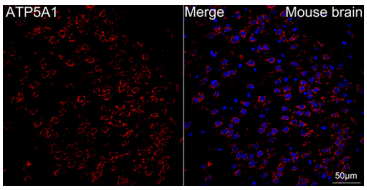
Western blot analysis of various lysates using ATP5A1 Rabbit mAb (A11217) at 1□1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Confocal imaging of NIH/3T3 cells using ATP5A1 Rabbit mAb (A11217, dilution 1:100) (Green). The cells were counterstained with Alpha-tubulin (ubiquitous) chain Rabbit mAb (AC039, dilution 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 60x.

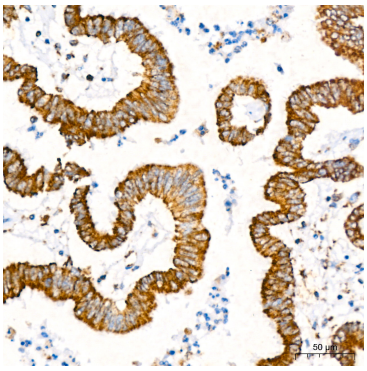


Confocal imaging of paraffin-embedded Rat brain tissue using ATP5A1 Rabbit mAb (A11217, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval with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

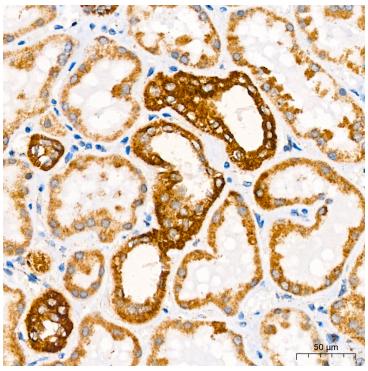


Confocal imaging of paraffin-embedded Mouse brain tissue using ATP5A1 Rabbit mAb (A11217, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform microwave antigen retrieval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

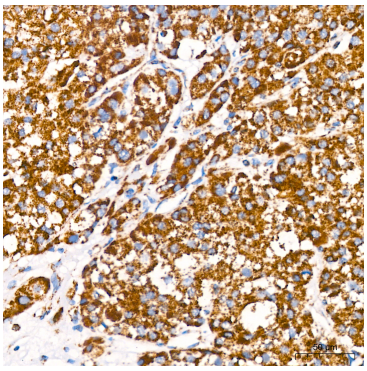
Validation Data



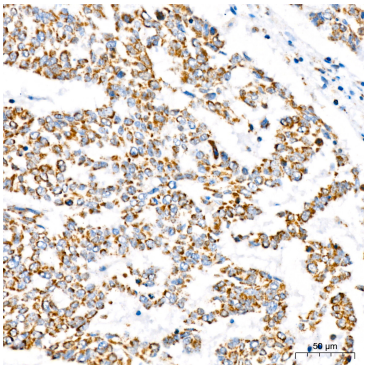
Immunohistochemistry analysis of ATP5A1 in paraffin-embedded human colon carcinoma using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



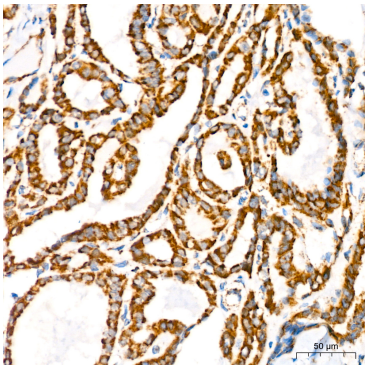
Immunohistochemistry analysis of ATP5A1 in paraffin-embedded human kidney using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



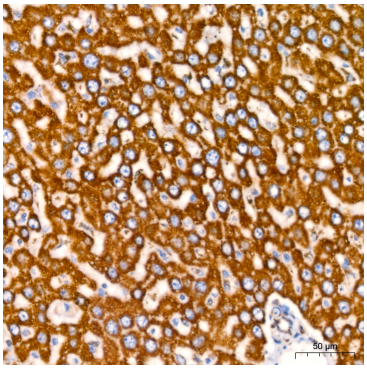
Immunohistochemistry analysis of ATP5A1 in paraffin-embedded human liver cancer using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATP5A1 in paraffin-embedded human lung squamous carcinoma tissue using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATP5A1 in paraffin-embedded human thyroid cancer using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of ATP5A1 in paraffin-embedded rat liver using ATP5A1 Rabbit mAb (A11217) at dilution of 1:200 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.