

Rabbit anti-Human, Mouse ATP5A1 Polyclonal Antibody | anti-ATP5A1 antibody

Rabbit anti-ATP5A1 Antibody, Affinity Purified

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA213017	Rabbit	Human, Mouse	Immunohistochemistry, Immunoprecipitation, Western Blot

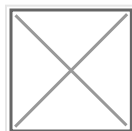
PRODUCT SYNONYMS

ATP5A1; Polyclonal Antibody; Rabbit anti-ATP5A1 Antibody; Affinity Purified; COXPD22; ORM; OMR; MOM2; mitochondrial ATP synthetase; oligomycin-resistant; MC5DN4; HEL-S-123m; hATP1; epididymis secretory sperm binding protein Li 123m; ATP5AL2; ATP synthase alpha chain; mitochondrial; ATP5A; ATP sythase (F1-ATPase) alpha subunit; ATP synthase; H⁺ transporting; mitochondrial F1 complex; alpha subunit; isoform 2; non-cardiac muscle-like 2; isoform 1; cardiac muscle; alpha subunit 1; ATP synthase subunit alpha; ATP synthase F1 subunit alpha; ATPM; anti-ATP5A1 antibody

PRODUCT SPECIFICATIONS

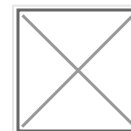
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Purity/Purification	Antigen Affinity Purified
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Concentration	1000ug/ml (varies by lot)
Applicable Applications for anti-ATP5A1 antibody	IHC (Immunohistochemistry), IP (Immunoprecipitation), WB (Western Blot)
Predicted Reactivity	Rat, D. melanogaster, Bovine, Pig, Orangutan, Chimpanzee
Immunogen	Between 100 and 150
Conjugation	Unconjugated
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt

IMAGES



WB (Western Blot)

Detection of human ATP5A1 by western blot. Samples: Whole cell lysate (10 ug) from HEK293T, HeLa, Jurkat, LNCaP, and RKO cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ATP5A1 antibody (AAA213017 lot 2) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



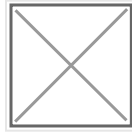
WB (Western Blot)

Detection of mouse ATP5A1 by western blot. Samples: Whole cell lysate (10 ug) from NIH 3T3, CT26, CH27, TCMK-1, and BW5147.3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-ATP5A1 antibody (AAA213017 lot 2) used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



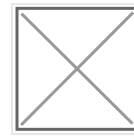
IP (Immunoprecipitation)

Detection of human ATP5A1 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 5% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-ATP5A1 antibody (AAA213017 lot 2) used for IP at 6 ug per reaction. ATP5A1 was also immunoprecipitated by a previous lot of this antibody (AAA213017 lot 1) and a second antibody against a different epitope of ATP5A1. For blotting immunoprecipitated ATP5A1, AAA213017 was used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 1 second.



IHC (Immunohistochemistry)

Detection of mouse ATP5A1 by immunohistochemistry. Sample: FFPE section of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-ATP5A1 (AAA213017) used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB



IHC (Immunohistochemistry)

Detection of human ATP5A1 by immunohistochemistry. Sample: FFPE section of human prostate carcinoma. Antibody: Affinity purified rabbit anti-ATP5A1 (AAA213017) used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB

ADDITIONAL INFORMATION

Related Product Information for anti-ATP5A1 antibody	ATP synthase subunit alpha mitochondrial (ATP5A1) is 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) [taken from NCBI Entrez Gene (Gene ID: 498)].
Product Categories/Family for anti-ATP5A1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757810
NCBI GeneID	498
NCBI Accession #	NP_004037.1
NCBI GenBank Nucleotide #	NM_004046.5
UniProt Accession #	P25705 ; Q53XX6 ; Q8IXV2 ; Q96FB4 ; Q96HW2 ; Q96IR6 ; Q9BTV8 ; A8K092 ; B4DY56 ; K7ENP3
Molecular Weight	57,547 Da
NCBI Official Full Name	ATP synthase subunit alpha, mitochondrial isoform a
NCBI Official Synonym Full Names	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1, cardiac muscle
NCBI Official Symbol	ATP5A1
NCBI Official Synonym Symbols	OMR; ORM; ATPM; MOM2; ATP5A; hATP1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m
NCBI Protein Information	ATP synthase subunit alpha, mitochondrial; ATP synthase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; epididymis secretory sperm binding protein Li 123m; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H ⁺ transportin
UniProt Protein Name	ATP synthase subunit alpha, mitochondrial
UniProt Gene Name	ATP5A1
UniProt Synonym Gene Names	ATP5A; ATP5AL2; ATPM

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp5a1-antibody-immunohistochemistry-immunoprecipitation-western-blot-elisa/213017>