Mouse anti-Human ATP5A Monoclonal Antibody | anti-ATP5A antibody

ATP5A (783) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62397	**Mouse**	**Human**	**Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot**

PRODUCT SYNONYMS

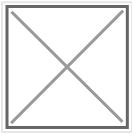
ATP5A; Monoclonal Antibody; ATP5A (783) Mouse mAb; alpha subunit; ATP synthase; ATP synthase alpha chain; mitochondrial; ATP synthase alpha subunit; ATP synthase subunit alpha; H+ transporting; mitochondrial F1 complex; isoform 1; cardiac muscle; isoform 2; non-cardiac muscle-like 2; ATP sythase (F1-ATPase) alpha subunit; ATP5AL2; ATPM; epididymis secretory sperm binding protein Li 123m; hATP1; iso; mitochondrial ATP synthase alpha subunit; mitochondrial ATP synthetase; oligomycin-resistant; mitochondrial H+-ATP synthase alpha subunit; modifier of Min 2; MOM2; OMR; ORM; AI035633; AL022851; AL023067; ATP5A1; ATP5A2; BOS_22238; COXPD22; D18Ertd206e; HEL-S-123m; MC5DN4; zgc:154103; anti-ATP5A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Sequence Length	503
Applicable Applications for anti-ATP5A antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human

IMAGES

FCM/FACS (Flow Cytometry)
Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling ATPA with M25010 at 1/200 dilution (green) compared with a mouse monoclonal IgG isotype control (black) and an unlabelled control (cells without incubation with primary antibody, blue). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)
ATPA was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25010 of 10 ug. Western blot was performed from the immunoprecipitate using M25010 at 1/2000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2:IP product of Jurkat cells membrane fraction.Blocking and dilution buffer and concentration:5% milk/TBST.

WB (Western Blot)
All lanes : ATPA Mouse mAb at 1/2000 dilution Lane 1 : Jurkat cells membrane fraction Lane 2 : THP1 cells membrane fraction Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Mouse IgG-HRP, 5% milk conjugated at 1/10000 dilution Predicted band size : 59 KDa Observed band size : 59 KDa Blocking/Dilution buffer : 1x TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP5A antibody	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.
Product Categories/Family for anti-ATP5A antibody	Cell Marker; Subcellular Marker; Membrane

NCBI AND UNIPROT INFORMATION

NCBI GI #	50345982
NCBI GeneID	498
NCBI Accession #	NP_001001935.1
NCBI GenBank Nucleotide #	NM_001001935.2
UniProt Accession #	P25705; Q53XX6; Q8IXV2; Q96FB4; Q96HW2; Q96IR6; Q9BTV8; A8K092; B4DY56; K7ENP3
Molecular Weight	Predicted MW: 59kDa
NCBI Official Full Name	ATP synthase subunit alpha, mitochondrial isoform c
NCBI Official Synonym Full Names	ATP synthase F1 subunit alpha
NCBI Official Symbol	ATP5F1A
NCBI Official Synonym Symbols	OMR; ORM; ATPM; MOM2; ATP5A; hATP1; ATP5A1; MC5DN4; ATP5AL2; COXPD22; HEL-S-123m
NCBI Protein Information	ATP synthase subunit alpha, mitochondrial
UniProt Protein Name	ATP synthase subunit alpha, mitochondrial
UniProt Gene Name	**ATP5F1A**
UniProt Synonym Gene Names	ATP5A; ATP5A1ImportedManual assertion inferred from database entriesiHGNC:823; ATP5AL2ImportedManual assertion inferred from database entriesiHGNC:823; ATPMImportedManual assertion inferred from database entriesiHGNC:823

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/monoclonal/atp5a-antibody-flow-cytometry-immunoprecipitation-western-blot-elisa/62397