

Human ATPase, H⁺ Transporting, Mitochondrial F1 Complex Alpha Polypeptide ELISA Kit | ATP5a elisa kit

Human ATPase, H⁺ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a) (Sandwich ELISA) ELISA Kit

CATALOG # AAA190044	REACTIVITY Human
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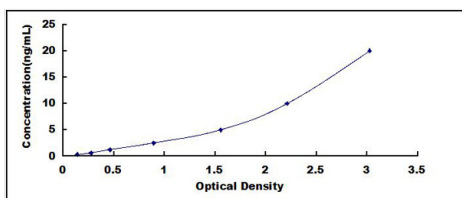
PRODUCT SYNONYMS

ATPase; H⁺ Transporting; Mitochondrial F1 Complex Alpha Polypeptide; Human ATPase; Mitochondrial F1 Complex Alpha Polypeptide (ATP5a) (Sandwich ELISA) ELISA Kit; ATP5A1; ATP5AL2; ATPM; OMR; ORM; hATP1; ELISA Kit for ATPase; Mitochondrial F1 Complex Alpha Polypeptide (ATP5a); ATP5a elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATPase, H ⁺ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a). No significant cross-reactivity or interference between ATPase, H ⁺ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a) and analogues was observed. Reactive with Human ATP5a / ATPase, H ⁺ Transporting, Mitochondrial F1 Complex Alpha Polypeptide
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.115ng/mL
Detection Method	Colormetric
Assay Precision	Intra-Assay: CV<10%, Inter-Assay: CV<12%
Preparation and Storage	4 degree C for 1 month/ -20 degree C for long-term(within shelf life). Shelf life is one year

IMAGES



Standard Curve (Sample)

Typical Standard Curve for ATP5a ELISA (Sandwich)

ADDITIONAL INFORMATION

Related Product Information for ATP5a elisa kit	Principle of the Assay The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to ATPase, H+ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to ATPase, H+ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain ATPase, H+ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of ATPase, H+ Transporting, Mitochondrial F1 Complex Alpha Polypeptide (ATP5a) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for ATP5a elisa kit	Signal transduction

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
Molecular Weight	59,751 Da
NCBI Official Full Name	ATP synthase subunit alpha, mitochondrial isoform c
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
NCBI Protein Information	ATP synthase subunit alpha, mitochondrial; ATP sythase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H+ transporting, mitochondrial F1 complex, alpha subunit, isoform
UniProt Protein Name	ATP synthase subunit alpha, mitochondrial
UniProt Gene Name	ATP5A1
UniProt Synonym Gene Names	ATP5A; ATP5AL2; ATPM
UniProt Entry Name	ATPA_HUMAN

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/atp5a-human-elisa-kits/atpase-h-transporting-mitochondrial-f1-complex-alpha-polypeptide/190044>