

Human ATP synthase subunit Alpha, mitochondrial (ATP5A1) ELISA Kit | ATP5A1 elisa kit

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CATALOG #
AAA246968

REACTIVITY
Human

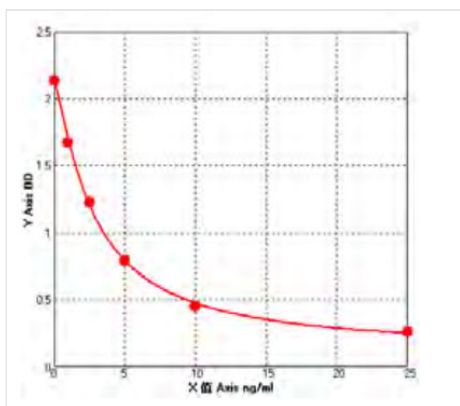
PRODUCT SYNONYMS

ATP synthase subunit Alpha; mitochondrial (ATP5A1); Human ATP synthase subunit Alpha; mitochondrial (ATP5A1) ELISA Kit; ATP5A1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP5A1. No significant cross-reactivity or interference between ATP5A1 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ATP5A1 and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP5A1 elisa kit	Principle of the Assay: ATP5A1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ATP5A1 antibody and an ATP5A1-HRP conjugate. The assay sample and buffer are incubated together with ATP5A1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ATP5A1 concentration since ATP5A1 from samples and ATP5A1-HRP conjugate compete for the anti-ATP5A1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP5A1 from the sample, fewer sites are left to bind ATP5A1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP5A1 concentration in each sample is interpolated from this standard curve. Intended Uses: This ATP5A1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ATP5A1. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for ATP5A1 elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	382546007
NCBI GeneID	498
NCBI Accession #	NP_001244263.1
NCBI GenBank Nucleotide #	NM_001257334.1
Molecular Weight	57,547 Da
NCBI Official Full Name	ATP synthase subunit alpha, mitochondrial isoform b
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; HEL-S-123m
NCBI Protein Information	ATP synthase subunit alpha, mitochondrial; ATP sythase (F1-ATPase) alpha subunit; ATP synthase alpha chain, mitochondrial; epididymis secretory sperm binding protein Li 123m; mitochondrial ATP synthetase, oligomycin-resistant; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle; ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit, isoform 2, non-cardiac muscle-like 2
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://www.aaabiotech.com/human-elisa-kits/atp-synthase-subunit-alpha-mitochondrial-atp5a1/246968>