

Human ATP synthase subunit beta, mitochondrial (ATP5B) ELISA Kit | ATP5B elisa kit

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CATALOG #
AAA245695

REACTIVITY
Human

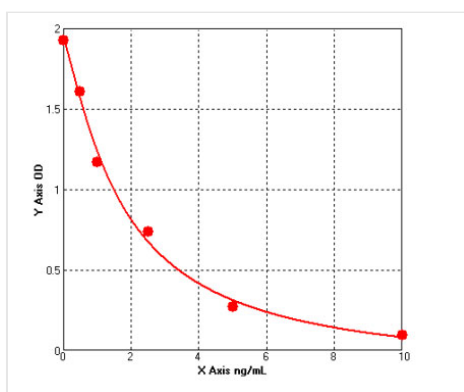
PRODUCT SYNONYMS

ATP synthase subunit beta; mitochondrial (ATP5B); Human ATP synthase subunit beta; mitochondrial (ATP5B) ELISA Kit; Human ATP synthase subunit b; ATP5B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP5B. No significant cross-reactivity or interference between ATP5B and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ATP5B 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 ATP5B elisa kit	Principle of the Assay: ATP5B ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ATP5B antibody and an ATP5B-HRP conjugate. The assay sample and buffer are incubated together with ATP5B-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 ATP5B concentration since ATP5B from samples and ATP5B-HRP conjugate compete for the anti-ATP5B antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP5B from the sample, fewer sites are left to bind ATP5B-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP5B concentration in each sample is interpolated from this standard curve. Intended Uses: This ATP5B ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ATP5B. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for ATP5B elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	32189394
NCBI GeneID	506
NCBI Accession #	NP_001677.2
NCBI GenBank Nucleotide #	NM_001686.3
Molecular Weight	56,560 Da
NCBI Official Full Name	ATP synthase subunit beta, mitochondrial
NCBI Official Synonym Full Names	ATP synthase, H+ transporting, mitochondrial F1 complex, beta polypeptide
NCBI Official Symbol	ATP5B
NCBI Official Synonym Symbols	ATPMB; ATPSB; HEL-S-271
NCBI Protein Information	ATP synthase subunit beta, mitochondrial; epididymis secretory protein Li 271; mitochondrial ATP synthase beta subunit; mitochondrial ATP synthetase, beta subunit
UniProt Protein Name	ATP synthase subunit beta, mitochondrial
UniProt Gene Name	ATP5B
UniProt Synonym Gene Names	ATPMB; ATPSB
UniProt Entry Name	ATPB_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/human-elisa-kits/atp-synthase-subunit-beta-mitochondrial-atp5b/245695>