

Human ATP synthase, H⁺ transporting, mitochondrial F1 complex, beta polypeptide ELISA Kit | ATP5B elisa kit

Human ATP synthase subunit beta, mitochondrial, ATP5B ELISA Kit

CATALOG #
AAA112596

REACTIVITY
Human

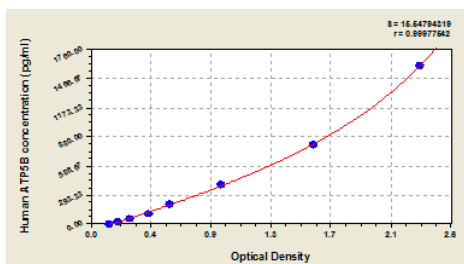
PRODUCT SYNONYMS

ATP synthase; H⁺ transporting; mitochondrial F1 complex; beta polypeptide; Human ATP synthase subunit beta; mitochondrial; ATP5B ELISA Kit; mitochondrial (ATP5B) ELISA kit; ATPMB; ATPSB; MGC5231; mitochondrial ATP synthase beta subunit; mitochondrial ATP synthetase; beta subunit; ATP5B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of human ATP5B. No significant cross-reactivity or interference between human ATP5B and analogues was observed.
Sequence Length	529
Samples	Serum, plasma, tissue homogenates, Cell lysates
Assay Type	Sandwich
Detection Range	25 pg/ml -1600 pg/ml.
Sensitivity	The minimum detectable dose of human ATP5B is typically less than 6.25 pg/ml. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean O.D value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV%<8%. Three samples of known concentration were tested twenty times on one plate to assess.
Inter-assay Precision	Inter-assay Precision (Precision between assays): CV%<10%. Three samples of known concentration were tested in twenty assays to assess.
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP5B elisa kit	Principle of the assay: This assay employs the quantitative sandwich enzyme immunoassay technique. Antibody specific for ATP5B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any ATP5B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ATP5B is added to the wells. After washing, avidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ATP5B bound in the initial step. The color development is stopped and the intensity of the color is measured.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	32189394
NCBI GeneID	506
NCBI Accession #	NP_001677.2
NCBI GenBank Nucleotide #	NM_001686.3
UniProt Accession #	P06576; Q14283; A8K4X0
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://www.aaabiotech.com/atp5b-human-elisa-kits/atp-synthase-h-transporting-mitochondrial-f1-complex-beta-polypeptide/112596>