

Human ATP synthase subunit O, mitochondrial (ATP5O) ELISA Kit | ATP5O elisa kit

Human ATP synthase subunit O, mitochondrial (ATP5O) ELISA Kit

CATALOG #
AAA245063

REACTIVITY
Human

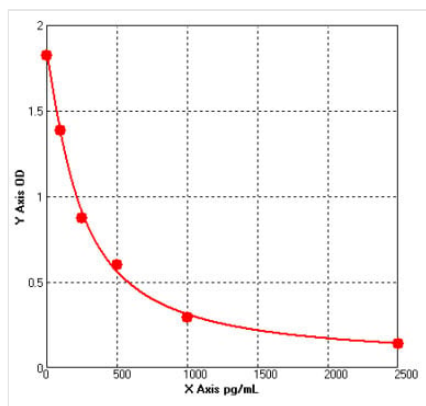
PRODUCT SYNONYMS

ATP synthase subunit O; mitochondrial (ATP5O); Human ATP synthase subunit O; mitochondrial (ATP5O) ELISA Kit; ATP5O elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of ATP5PO. No significant cross-reactivity or interference between ATP5PO and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between ATP5PO 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	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for ATP5O elisa kit	Principle of the Assay: ATP5PO ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-ATP5PO antibody and an ATP5PO-HRP conjugate. The assay sample and buffer are incubated together with ATP5PO-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 ATP5PO concentration since ATP5PO from samples and ATP5PO-HRP conjugate compete for the anti-ATP5PO antibody binding site. Since the number of sites is limited, as more sites are occupied by ATP5PO from the sample, fewer sites are left to bind ATP5PO-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ATP5PO concentration in each sample is interpolated from this standard curve. Intended Uses: This ATP5PO ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human ATP5PO. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for ATP5O elisa kit	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502303
NCBI GeneID	539
NCBI Accession #	NP_001688.1
NCBI GenBank Nucleotide #	NM_001697.2
Molecular Weight	23,277 Da
NCBI Official Full Name	ATP synthase subunit O, mitochondrial
NCBI Official Synonym Full Names	ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit
NCBI Official Symbol	ATP5O
NCBI Official Synonym Symbols	ATPO; OSCP
NCBI Protein Information	ATP synthase subunit O, mitochondrial; human ATP synthase OSCP subunit; oligomycin sensitivity conferral protein; oligomycin sensitivity conferring protein
UniProt Protein Name	ATP synthase subunit O, mitochondrial
UniProt Gene Name	ATP5O
UniProt Synonym Gene Names	ATPO; OSCP
UniProt Entry Name	ATPO_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/atp-synthase-subunit-o-mitochondrial-atp5o/245063>