

Human Cytochrome C Oxidase Subunit I (COX1) ELISA Kit | COX1 elisa kit

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CATALOG #
AAA68053

REACTIVITY
Human

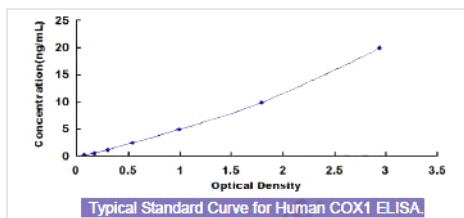
PRODUCT SYNONYMS

Cytochrome C Oxidase Subunit I (COX1); Human Cytochrome C Oxidase Subunit I (COX1) ELISA Kit; MT-CO1 MTCO1 COI COXI Mitochondrially Encoded Cytochrome C Oxidase I Cytochrome c oxidase polypeptide I; COX1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of COX1. No significant cross-reactivity or interference between COX1 and analogues was observed.
Sequence Length	513
Samples	Tissue homogenates, cell lysates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	0.119ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level COX1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level COX1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for COX1 elisa kit	Intended Uses: This kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of COX1 in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to COX1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to COX1. 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 COX1, 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 COX1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	251831109
NCBI GeneID	4512
NCBI Accession #	YP_003024028.1
NCBI GenBank Nucleotide #	YP_003024028.1
UniProt Accession #	P00395; Q34770
Molecular Weight	57,041 Da
NCBI Official Full Name	cytochrome c oxidase subunit I (mitochondrion)
NCBI Official Synonym Full Names	mitochondrially encoded cytochrome c oxidase I
NCBI Official Symbol	MT-CO1
NCBI Official Synonym Symbols	COI; MTCO1; COX1
NCBI Protein Information	cytochrome c oxidase subunit I
UniProt Protein Name	Cytochrome c oxidase subunit 1
UniProt Gene Name	MT-CO1
UniProt Synonym Gene Names	COI; COXI; MTCO1

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.