

Human Carnitine Palmitoyltransferase 1B, Muscle (CPT1B) ELISA Kit | CPT1B elisa kit

Human Carnitine Palmitoyltransferase 1B, Muscle (CPT1B) ELISA Kit

CATALOG #
AAA64829

REACTIVITY
Human

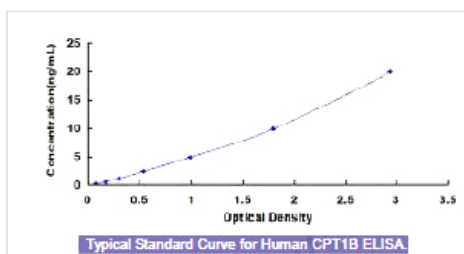
PRODUCT SYNONYMS

Carnitine Palmitoyltransferase 1B; Muscle (CPT1B); Human Carnitine Palmitoyltransferase 1B; Muscle (CPT1B) ELISA Kit; CPT1B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CPT1B. No significant cross-reactivity or interference between CPT1B and analogues was observed.
Sequence Length	738
Samples	Tissue homogenates and other biological fluids.
Assay Type	Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	0.084ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CPT1B 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 CPT1B 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 CPT1B elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CPT1B in human tissue homogenates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to CPT1B. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to CPT1B. 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 CPT1B, 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 CPT1B in the samples is then determined by comparing the O.D. of the samples to the standard curve.
---	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	223468670
NCBI GeneID	1375
NCBI Accession #	NP_001138606.1
NCBI GenBank Nucleotide #	NM_001145134.1
UniProt Accession #	Q92523; Q13389; Q99655; Q9BY90; B7Z4U4; B7Z5T8; E9PCP2
Molecular Weight	78,844 Da
NCBI Official Full Name	carnitine O-palmitoyltransferase 1, muscle isoform isoform c
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1B
NCBI Official Symbol	CPT1B
NCBI Official Synonym Symbols	CPTI; CPT1M; MCPT1; CPT1-M; CPTI-M; M-CPT1; MCCPT1
NCBI Protein Information	carnitine O-palmitoyltransferase 1, muscle isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, muscle isoform
UniProt Gene Name	CPT1B
UniProt Synonym Gene Names	KIAA1670; CPT1-M; CPT I; CPTI-M

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.