

Guinea Pig Carnitine O-palmitoyltransferase 2, mitochondrial (CPT2) ELISA Kit | CPT2 elisa kit

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CATALOG # AAA246400	REACTIVITY Guinea Pig
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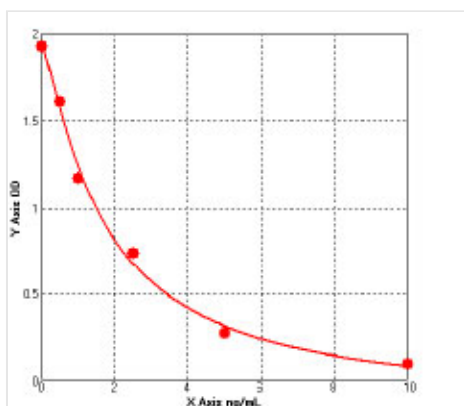
PRODUCT SYNONYMS

Carnitine O-palmitoyltransferase 2; mitochondrial (CPT2); Guinea pig Carnitine O-palmitoyltransferase 2; mitochondrial (CPT2) ELISA Kit; CPT2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Guinea Pig
Specificity	This assay has high sensitivity and excellent specificity for detection of CPT2. No significant cross-reactivity or interference between CPT2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CPT2 and all the analogues, therefore, cross reaction may still exist in some cases.
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Quantitative Competitive
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 CPT2 elisa kit	Intended Uses: This CPT2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Guinea pig CPT2. This ELISA kit for research use only! Principle of the Assay: CPT2 ELISA kit applies the competitive enzyme immunoassay technique utilizing an anti-CPT2 antibody and an CPT2-HRP conjugate. The assay sample and buffer are incubated together with CPT2-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 CPT2 concentration since CPT2 from samples and CPT2-HRP conjugate compete for the anti-CPT2 antibody binding site. Since the number of sites is limited, as more sites are occupied by CPT2 from the sample, fewer sites are left to bind CPT2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CPT2 concentration in each sample is interpolated from this standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503023
NCBI GeneID	1376
NCBI Accession #	NP_000089.1
NCBI GenBank Nucleotide #	NM_000098.2
Molecular Weight	73,777 Da
NCBI Official Full Name	carnitine O-palmitoyltransferase 2, mitochondrial
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 2
NCBI Official Symbol	CPT2
NCBI Official Synonym Symbols	CPT1; IIAE4; CPTASE
NCBI Protein Information	carnitine O-palmitoyltransferase 2, mitochondrial; CPT II; carnitine palmitoyltransferase II
UniProt Protein Name	Carnitine O-palmitoyltransferase 2, mitochondrial
UniProt Gene Name	CPT2
UniProt Synonym Gene Names	CPT1; CPT II
UniProt Entry Name	CPT2_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.