



Human CPT1A blocking peptide (CDBP0871)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-CPT1A antibody
Antigen Description	The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	Cpt1a carnitine palmitoyltransferase 1a, liver [Mus musculus]
Official Symbol	CPT1A
Synonyms	CPT1A; carnitine palmitoyltransferase 1a, liver; carnitine O-palmitoyltransferase 1, liver isoform;

CPT I; CPT1-L; CPTI-L; L-CPT I; carnitine palmitoyltransferase 1, liver; carnitine O-palmitoyltransferase I, liver isoform; CPTI; Cpt1; C730027G07;

Entrez Gene ID [12894](#)

mRNA Refseq [NM_013495](#)

Protein Refseq [NP_038523](#)

Pathway Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Import of palmitoyl-CoA into the mitochondrial matrix, organism-specific biosystem;

Function carnitine O-palmitoyltransferase activity; identical protein binding; transferase activity; transferase activity, transferring acyl groups;
