CPT1A FISH Probe

Catalog # FA0286 Size 200 uL

Specification

Product Description	Made to order FISH probes for identification of gene amplification using Fluorescent In Situ Hybridization Technique. (Technology).
Origin	Human
Source	Genomic DNA
Reactivity	Human
Notice	We **strongly recommend** the customer to use FFPE FISH PreTreatment Kit 1 (Catalog #: KA2375 or KA2691) for the pretreatment of Formalin-Fixed Paraffin-Embedded (FFPE) tissue sections.
Regulation Status	For research use only (RUO)
Supplied Product	DAPI Counterstain (1500 ng/mL) 250 uL
Storage Instruction	Store at 4°C in the dark.

Applications

- Fluorescent In Situ Hybridization (Cell)

  Protocol Download

Gene Info — CPT1A

Entrez GeneID	1374
Gene Name	CPT1A
Gene Alias	CPT1, CPT1-L, L-CPT1
Gene Description	carnitine palmitoyltransferase 1A (liver)

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Omim ID	255120 600528
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	carnitine palmitoyltransferase 1A|carnitine palmitoyltransferase I, liver

Pathway

- Adipocytokine signaling pathway
- Fatty acid metabolism
- PPAR signaling pathway

Disease

- Alzheimer disease
- Atherosclerosis
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Drug Toxicity
- Edema
- Fatty Liver
- Genetic Predisposition to Disease
- Hepatitis C
- Hypercholesterolemia

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- Hypertension
- Hypertrophy
- Insulin Resistance
- Lipid Metabolism
- Liver Cirrhosis
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Sudden Infant Death

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