10320 Camino Santa Fe, Suite G
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CPT1B Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16713b

Specification

CPT1B Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q92523

CPT1B Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1375

Other Names
Carnitine O-palmitoyltransferase 1, muscle isoform, CPT1-M, Carnitine O-palmitoyltransferase I, muscle isoform, CPT I, CPTI-M, Carnitine palmitoyltransferase 1B, Carnitine palmitoyltransferase I-like protein, CPT1B, KIAA1670

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CPT1B Antibody (C-term) Blocking Peptide - Protein Information

Name CPT1B

Synonyms KIAA1670

Function
Catalyzes the transfer of the acyl group of long-chain fatty acid-CoA conjugates onto carnitine, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion.

Cellular Location
Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Location
Strong expression in heart and skeletal muscle. No expression in liver and kidney

CPT1B Antibody (C-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CPT1B Antibody (C-term) Blocking Peptide - Images

CPT1B Antibody (C-term) Blocking Peptide - Background

The protein encoded by this gene, a member of thecarnitine/choline acetyltransferase family, is the rate-controllingenzyme of the long-chain fatty acid beta-oxidation pathway inmuscle mitochondria. This enzyme is required for the net transportof long-chain fatty acyl-CoAs from the cytoplasm into themitochondria. Multiple transcript variants encoding differentisoforms have been found for this gene, and read-throughtranscripts are expressed from the upstream locus that includeexons from this gene.

CPT1B Antibody (C-term) Blocking Peptide - References

Matsuo, T., et al. Biochem. Genet. 48 (3-4), 193-201 (2010) :Miljkovic, I., et al. Obesity (Silver Spring) 17(7):1396-1401(2009)Miyagawa, T., et al. PLoS ONE 4 (4), E5394 (2009) :van der Leij, F.R., et al. J. Biol. Chem. 277(30):26994-27005(2002)Yamazaki, N., et al. J. Biol. Chem. 275(41):31739-31746(2000)