

**CPT1B Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16713b****Specification**

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**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**

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 the carnitine/choline acetyltransferase family, is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the upstream locus that include exons 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)