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CPT1B Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP2540a

Specification

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

Primary Accession	Q92523
Other Accession	NP_004368

CPT1B Antibody (N-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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2540a was selected from the N-term region of human CPT1B . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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 (N-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 (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CPT1B Antibody (N-term) Blocking Peptide - Images

CPT1B Antibody (N-term) Blocking Peptide - Background

CPT1B is a member of the carnitine/choline acetyltransferase family, and 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.

CPT1B Antibody (N-term) Blocking Peptide - References

Dai, J., et al., Biochem. Biophys. Res. Commun. 301(3):758-763 (2003).van der Leij, F.R., et al., J. Biol. Chem. 277(30):26994-27005 (2002).Hirosawa, M., et al., DNA Res. 8(1):1-9 (2001).Yamazaki, N., et al., J. Biol. Chem. 275(41):31739-31746 (2000).Britton, C.H., et al., Genomics 40(1):209-211 (1997).