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CPT2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP2531b

Specification

CPT2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	P23786
Other Accession	CPT2_HUMAN

CPT2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 1376

Other Names
Carnitine O-palmitoyltransferase 2, mitochondrial, Carnitine palmitoyltransferase II, CPT II, CPT2, CPT1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2531b was selected from the C-term region of human CPT2 . 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.

CPT2 Antibody (C-term) Blocking Peptide - Protein Information

Name CPT2 (HGNC:2330)

Synonyms CPT1

Function
Involved in the intramitochondrial synthesis of acylcarnitines from accumulated acyl-CoA metabolites (PubMed:20538056, PubMed:24780397). Reconverts acylcarnitines back into the respective acyl-CoA esters that can then undergo beta-oxidation, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. Active with medium (C8- C12) and long-chain (C14-C18) acyl-CoA esters (PubMed:20538056).

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Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

CPT2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CPT2 Antibody (C-term) Blocking Peptide - Images

CPT2 Antibody (C-term) Blocking Peptide - Background

Carnitine palmitoyltransferase II precursor (CPT2) is a nuclear protein which is transported to the mitochondrial inner membrane. CPT2 together with carnitine palmitoyltransferase I oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders.

CPT2 Antibody (C-term) Blocking Peptide - References

Deschauer, M., et al., Mol. Genet. Metab. 75(2):181-185 (2002).Haap, M., et al., J. Clin. Endocrinol. Metab. 87(5):2139-2143 (2002).Britton, C.H., et al., Proc. Natl. Acad. Sci. U.S.A. 92(6):1984-1988 (1995).Verderio, E., et al., Hum. Mol. Genet. 4(1):19-29 (1995).Montermini, L., et al., Biochim. Biophys. Acta 1219(1):237-240 (1994).