

CPT2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2530a**Specification**

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

Primary Accession [P23786](#)
Other Accession [CPT2_HUMAN](#)

CPT2 Antibody (N-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 [AP2530a](/product/products/AP2530a) was selected from the N-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 (N-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](http://www.uniprot.org/citations/20538056), PubMed: [24780397](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20538056)).

Cellular Location

Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

CPT2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CPT2 Antibody (N-term) Blocking Peptide - Images**CPT2 Antibody (N-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 (N-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).