

**CPT2 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2530a****Specification**

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**CPT2 Antibody (N-term) - Product Information**

Application	<b>WB,E</b>
Primary Accession	<a href="#">P23786</a>
Other Accession	<a href="#">Q60HG9</a>
Reactivity	<b>Human</b>
Predicted	<b>Monkey</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>73777</b>
Antigen Region	<b>6-38</b>

**CPT2 Antibody (N-term) - Additional Information****Gene ID** 1376**Other Names**

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

**Target/Specificity**

This CPT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 6-38 amino acids from the N-terminal region of human CPT2.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CPT2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**CPT2 Antibody (N-term) - 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](#)).

## Cellular Location

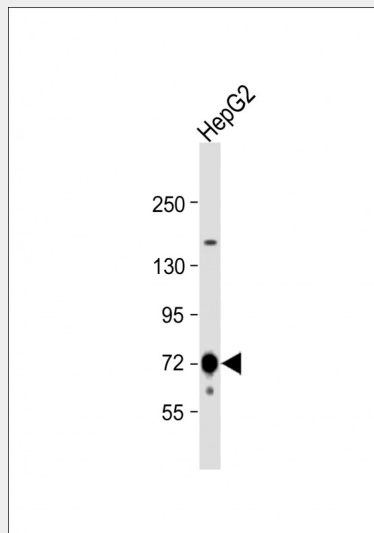
Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

## CPT2 Antibody (N-term) - Protocols

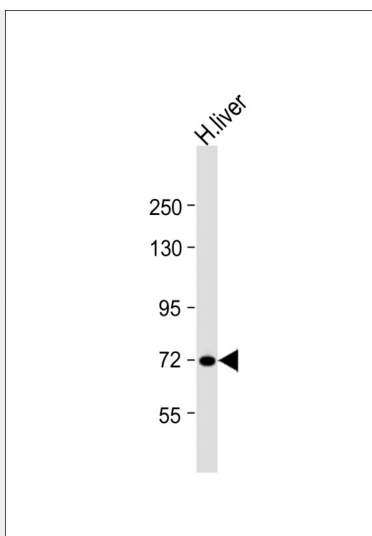
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## CPT2 Antibody (N-term) - Images



Anti-CPT2 Antibody (C21) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 74 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Anti-CPT2 Antibody (C21) at 1:1000 dilution + human liver lysate Lysates/proteins at 20  $\mu$ g per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 74 kDa Blocking/Dilution buffer: 5% NFD/MTBST.

#### **CPT2 Antibody (N-term) - 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) - 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).