

# CPT2 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP2530a

## Product Information

---

Application	WB, E
Primary Accession	<a href="#">P23786</a>
Other Accession	<a href="#">Q60HG9</a>
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4657/4658
Calculated MW	73777
Antigen Region	6-38

## 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 E~~Use at an assay dependent concentration.
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.

## Protein Information

---

Name	CPT2 ( <a href="#">HGNC:2330</a> )
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

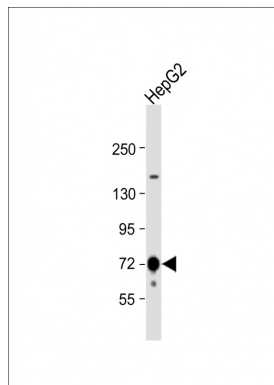
## Background

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.

## 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).

## 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% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.