

# CPT2 Antibody

Rabbit mAb

Catalog # AP90702

## Product Information

<b>Application</b>	WB, IHC, IF, ICC, IHF
<b>Primary Accession</b>	<a href="#">P23786</a>
<b>Reactivity</b>	Rat, Human, Mouse
<b>Clonality</b>	Monoclonal
<b>Other Names</b>	CPT1; CPT2; IIAE4; CPTASE;
<b>Isotype</b>	Rabbit IgG
<b>Host</b>	Rabbit
<b>Calculated MW</b>	73777

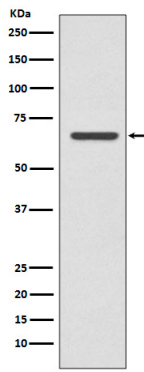
## Additional Information

<b>Dilution</b>	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
<b>Purification</b>	Affinity-chromatography
<b>Immunogen</b>	A synthesized peptide derived from human CPT2
<b>Description</b>	The protein encoded by this gene is a nuclear protein which is transported to the mitochondrial inner membrane. Together with carnitine palmitoyltransferase I, the encoded protein oxidizes long-chain fatty acids in the mitochondria. Defects in this gene are associated with mitochondrial long-chain fatty-acid (LCFA) oxidation disorders.
<b>Storage Condition and Buffer</b>	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## Protein Information

<b>Name</b>	CPT2 ( <a href="#">HGNC:2330</a> )
<b>Synonyms</b>	CPT1
<b>Function</b>	Involved in the intramitochondrial synthesis of acylcarnitines from accumulated acyl-CoA metabolites (PubMed: <a href="#">20538056</a> , PubMed: <a href="#">24780397</a> ). 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: <a href="#">20538056</a> ).
<b>Cellular Location</b>	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

## Images



Western blot analysis of CPT2 expression in MCF-7 cell lysate.

Image not found : 202311/AP90702-IHC.jpg

Immunohistochemical analysis of paraffin-embedded human ovarian cancer, using CPT2 Antibody.

Image not found : 202311/AP90702-IF.jpg

Immunofluorescent analysis of MCF-7 cells, using CPT2 Antibody.

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