10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CPT2 (aa141-154) Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3062a

Specification

CPT2 (aa141-154) Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	P23786
Other Accession	NP_000089.1, 1376
Reactivity	**Human, Mouse**
Predicted	**Rat, Pig, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**73777**

CPT2 (aa141-154) Antibody (internal region) - Additional Information

Gene ID 1376

Other Names
Carnitine O-palmitoyltransferase 2, mitochondrial, 2.3.1.21, Carnitine palmitoyltransferase II, CPT II, CPT2, CPT1

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CPT2 (aa141-154) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

CPT2 (aa141-154) Antibody (internal region) - 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 (aa141-154) Antibody (internal region) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CPT2 (aa141-154) Antibody (internal region) - Images



AF3062a (1 µg/ml) staining of Human Liver lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

CPT2 (aa141-154) Antibody (internal region) - References

CPT2 gene mutations resulting in lethal neonatal or severe infantile carnitine palmitoyltransferase II deficiency. Isackson PJ, Bennett MJ, Lichter-Konecki U, Willis M, Nyhan WL, Sutton VR, Tein I, Vladutiu GD, Molecular genetics and metabolism 2008 Aug 94 (4): 422-7. PMID: 18550408