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CPT2 Antibody

Rabbit mAb
Catalog # AP90702

Product Information

Application	WB, IHC, IF, ICC, IHF
Primary Accession	P23786
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CPT1; CPT2; IIAE4; CPTASE;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	73777

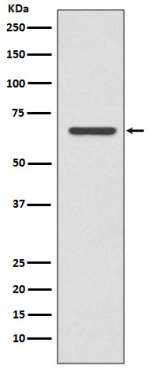
Additional Information

Dilution	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human CPT2
Description	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.
Storage Condition and Buffer	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

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

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'.