

CPT2 Antibody

Rabbit mAb Catalog # AP90702

Product Information

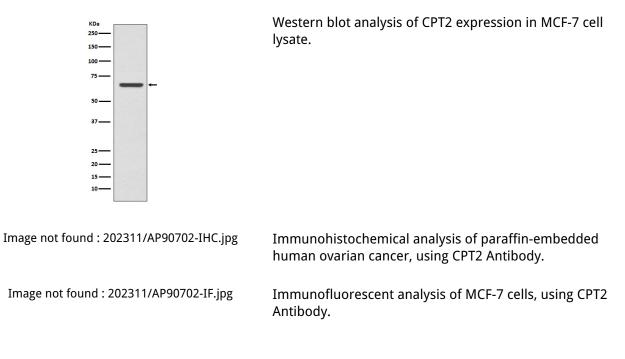
Application	WB, IHC, IF, ICC, IHF
Primary Accession	<u>P23786</u>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Other Names	CPT1; CPT2; IIAE4; CPTASE;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	73777

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 (<u>HGNC:2330</u>)
Synonyms	CPT1
Function	Involved in the intramitochondrial synthesis of acylcarnitines from accumulated acyl-CoA metabolites (PubMed: <u>20538056</u> , PubMed: <u>24780397</u>). 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: <u>20538056</u>).
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Matrix side
Images	



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