

Product datasheet for **AP51064PU-N**

CPT1C (C-term) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	ELISA: 1/1000. Western blot: 1/100 - 1/500. Flow Cytometry: 1/10 - 1/50.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 759-790 amino acids from the C-terminal region of human CPT1C
Specificity:	This antibody reacts to CPT1C.
Formulation:	PBS State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.09% (W/V) sodium azide
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	90989 Da
Gene Name:	carnitine palmitoyltransferase 1C
Database Link:	Entrez Gene 126129 Human Q8TCG5



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Background:

The Cpt1 family of proteins are outer mitochondrial membrane proteins that regulate the entry into, and oxidation of fatty acids by, mitochondria. Malonyl-CoA, an intermediate in fatty acid synthesis, has been implicated as a regulatory component of the energy sensing system that feeds into hypothalamic neurons to impart energy homeostasis. Malonyl-CoA levels in the hypothalamus are dynamically regulated by fasting and feeding, altering subsequent feeding behaviour. Cpt1c, the brain-specific carnitine O-palmitoyltransferase 1, is thought to relay information about malonyl-CoA levels in hypothalamic neurons that express orexigenic and anorexigenic neuropeptides that regulate food intake and peripheral energy expenditure. Unlike other Cpt1 proteins, Cpt1c binds Malonyl-CoA but does not catalyse the transfer of the malonyl group from CoA to carnitine.

Synonyms:

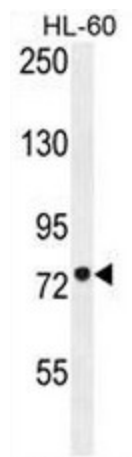
Carnitine palmitoyltransferase 1C, CPT 1C

Protein Families:

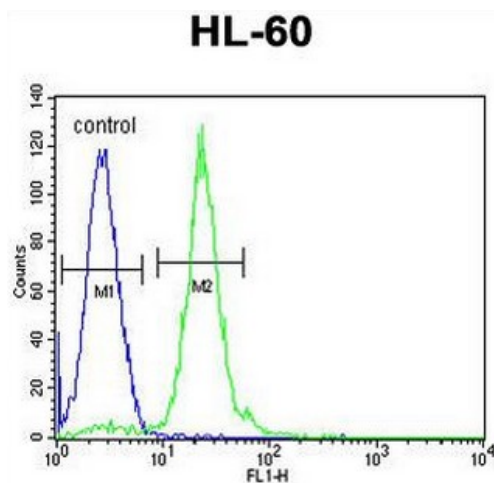
Druggable Genome, Transmembrane

Protein Pathways:

Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway

Product images:

CPT1C Antibody (C-term) western blot analysis in HL-60 cell line lysates (35ug/lane). This demonstrates the CPT1C antibody detected the CPT1C protein (arrow).



CPT1C Antibody (C-term) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.