

Rabbit anti-Human CPT1C Polyclonal Antibody | anti-CPT1C antibody

CPT1C Antibody (C-term)

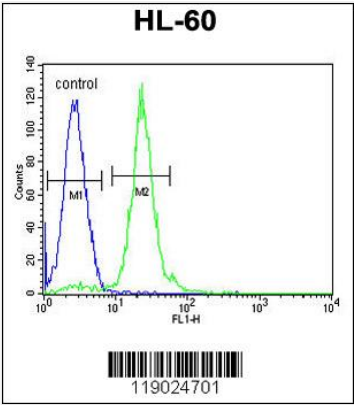
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA290179	Rabbit	Human	Flow Cytometry, Functional Assay, ELISA, Western Blot

PRODUCT SYNONYMS

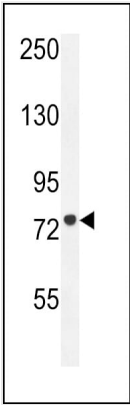
CPT1C; Polyclonal Antibody; CPT1C Antibody (C-term); Carnitine O-palmitoyltransferase 1; brain isoform; CPT1-B; CPT IC; Carnitine O-palmitoyltransferase I; CPTI-B; Carnitine palmitoyltransferase 1C; CATL1; anti-CPT1C antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CPT1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 752-782 amino acids from the C-terminal region of human CPT1C.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.25 (varies by lot)
Sequence Positions	752-782
Sequence Length	714
Applicable Applications for anti-CPT1C antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
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.



WB (Western Blot)
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).

ADDITIONAL INFORMATION

Related Product Information for anti-CPT1C antibody	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.
Product Categories/Family for anti-CPT1C antibody	Cardiovascular; Metabolism; Neuroscience; Signal Transduction
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Roomets, E., et al. Invest. Ophthalmol. Vis. Sci. 49(4):1660-1664(2008) Sierra, A.Y., et al. J. Biol. Chem. 283(11):6878-6885(2008) Price, N., et al. Genomics 80(4):433-442(2002)

NCBI AND UNIPROT INFORMATION

NCBI GI #	209862905
NCBI GeneID	126129
NCBI Accession #	NP_001129524.1; NP_001186681.1; NP_001186682.1; NP_689572.1
NCBI GenBank Nucleotide #	NM_001136052.2
UniProt Accession #	Q8TCG5; Q5K6N5; Q8N6Q9; Q8NDS6; Q8TE84; A8K0Z8
Molecular Weight	90989
NCBI Official Full Name	carnitine O-palmitoyltransferase 1, brain isoform isoform 1
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1C
NCBI Official Symbol	CPT1C
NCBI Official Synonym Symbols	CATL1; CPT1P; CPTIC; SPG73; CPT1-B; CPTI-B
NCBI Protein Information	carnitine O-palmitoyltransferase 1, brain isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, brain isoform

UniProt Gene Name	CPT1C
UniProt Synonym Gene Names	CATL1; CPT1-B; CPTI-B
UniProt Entry Name	CPT1C_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cpt1c-antibody-flow-cytometry-western-blot-elisa/290179>