



Rabbit Anti-Cpt1c antibody

SL11416R

Product Name:	Cpt1c
Chinese Name:	脑型肉碱棕榈酰转移酶1C抗体
Alias:	CPT1-C; Carnitine acyltransferase like protein 1; Carnitine acyltransferase like protein1; Carnitine O palmitoyltransferase I, brain isoform; Carnitine palmitoyltransferase 1, brain; Carnitine palmitoyltransferase 1C; Carnitine palmitoyltransferase I related C; Carnitine palmitoyltransferase1C; CAT L1; CATL 1; CATL1; CPT 1 like pseudogene; Cpt 1c; CPT 1P; CPT I C; Cpt1 c; CPT1 like pseudogene; CPT1P ; CPTIC.CPT1C HUMAN
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	88kDa
Cellular localization:	cytoplasmicThe cell membraneMitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cpt1c:121-170/803
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

Subcellular Location:

Mitochondrion outer membrane; Multi-pass membrane protein

Tissue Specificity:

Expressed predominantly in brain and testis.

Similarity:

Belongs to the carnitine/choline acetyltransferase family.

SWISS:

Q8TCG5

Gene ID:

126129

Database links:

[Entrez Gene: 126129](#)Human

[Entrez Gene: 78070](#)Mouse

[Entrez Gene: 308579](#)Rat

[Omir: 608846](#)Human

[SwissProt: Q8TCG5](#)Human

[SwissProt: Q8BGD5](#)Mouse

[SwissProt: F1LN46](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.