SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Cpt1c antibody

Catalog Number: SL11416R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Cpt1c
Immunogen:	KLH conjugated synthetic peptide derived from human Cpt1c: 121-170/803
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse)
Predicted MW.:	88kDa
Subcellular Location:	cytoplasmic The cell membrane Mitochondrion
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 hypothalmic 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.

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

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	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. **Database links:** **Entrez Gene:** 126129 Human **Entrez Gene:** 78070 Mouse **Entrez Gene:** 308579 Rat Omim: 608846 Human **SwissProt:** Q8TCG5 Human **SwissProt:** Q8BGD5 Mouse **SwissProt:** F1LN46 Rat

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