

CPT1C Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS15359**Specification**

CPT1C Antibody (Internal) - Product Information

Application	WB
Primary Accession	Q8TCG5
Reactivity	Human, Monkey, Horse, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	91kDa KDa

CPT1C Antibody (Internal) - Additional Information**Gene ID** 126129**Other Names**

Carnitine O-palmitoyltransferase 1, brain isoform, CPT1-B, 2.3.1.21, CPT 1C, Carnitine O-palmitoyltransferase I, brain isoform, CPTI-B, Carnitine palmitoyltransferase 1C, CPT1C, CATL1

Target/Specificity

Human CPT1C. This antibody is expected to recognise both reported isoforms (NP_689572.1; NP_001129524.1). Reported variants represent identical protein (NP_001186681.1; NP_001186682.1; NP_689572.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

CPT1C Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CPT1C Antibody (Internal) - Protein Information**Name** CPT1C ([HGNC:18540](#))**Synonyms** CATL1**Function**

Palmitoyl thioesterase specifically expressed in the endoplasmic reticulum of neurons. Modulates the trafficking of the glutamate receptor, AMPAR, to plasma membrane through depalmitoylation of GRIA1 (PubMed:30135643). Also regulates AMPR trafficking through the regulation of SACM1L phosphatidylinositol-3-phosphatase activity by interaction in a malonyl-CoA dependent manner (By similarity). Binds malonyl-CoA and couples malonyl-CoA to ceramide levels, necessary for proper spine maturation and contributing to systemic energy homeostasis and appetite control (PubMed:16651524).

Binds to palmitoyl-CoA, but does not have carnitine palmitoyltransferase 1 catalytic activity or at very low levels (PubMed: [25751282](http://www.uniprot.org/citations/25751282), PubMed: [30135643](http://www.uniprot.org/citations/30135643)).

Cellular Location

Cell projection, dendrite. Cell projection, axon. Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localized in the soma and dendritic and axonal projections.

Tissue Location

Expressed predominantly in brain and testis. Expressed in motor neurons.

CPT1C Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CPT1C Antibody (Internal) - Images



CPT1C antibody (1 ug/ml) staining of Human Frontal Cortex lysate (35 ug protein in RIPA buffer).

CPT1C Antibody (Internal) - References

Price N., et al. Genomics 80:433-442(2002).
Scorilas A., et al. Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Bechtel S., et al. BMC Genomics 8:399-399(2007).