

CPT1c

Cat.No. 415-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 784 to 798 from mouse Cpt1c (UniProt Id: Q8BGD5)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	415 003

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

CPT1c is a carnitine palmitoyltransferase 1 (CPT 1) isoform that is expressed only in the brain. It has been shown to be an integral part of native AMPA receptor complexes in neurons and modulates the surface expression of these ionotropic glutamate receptors.

Selected General References

Mechanisms of CPT1C-Dependent AMPAR Trafficking Enhancement.
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Journal of Cancer (2017) 8(18): 3675-3681.

Novel Regulation of the Synthesis of α-Amino-3-hydroxy-5-methyl-4-isoxazolepropionic Acid (AMPA) Receptor Subunit GluA1 by Carnitine Palmitoyltransferase 1C (CPT1C) in the Hippocampus.
Fadó R, Soto D, Miñano-Molina AJ, Pozo M, Carrasco P, Yefimenko N, Rodríguez-Álvarez J, Casals N
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AMPA interacting protein CPT1C enhances surface expression of GluA1-containing receptors.
Gratacòs-Batlle E, Yefimenko N, Cascos-García H, Soto D
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Localization and effect of ectopic expression of CPT1c in CNS feeding centers.
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