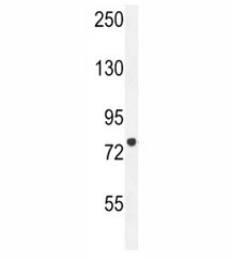
CPT1C Antibody (F41466)

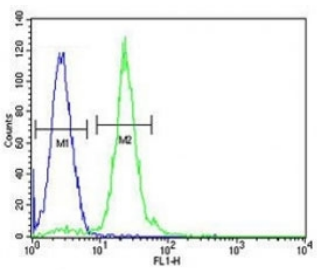
Catalog No.	Formulation	Size
F41466-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41466-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q8TCG5
Applications	Western blot: 1:1000 Flow Cytometry: 1:10-1:50
Limitations	This CPT1C antibody is available for research use only.



CPT1C antibody western blot analysis in HL-60 lysate. Predicted molecular weight 81-91 kDa.



CPT1C antibody flow cytometric analysis of HL-60 cells (green) compared to a negative control (blue). FITC-conjugated goat-anti-rabbit secondary Ab was used for the analysis.

Description

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. Unlike other Cpt1 proteins, Cpt1c binds Malonyl-CoA but does not catalyse the transfer of the malonyl group from CoA to carnitine.

Application Notes

Titration of the CPT1C antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 752-782 from the human protein was used as the immunogen for this CPT1C antibody.

Storage

Aliquot the CPT1C antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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