

Datasheet for ABIN655406
anti-CPT1C antibody (C-Term)

2 Images

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Overview

| | |
|----------------------|--|
| Quantity: | 400 µL |
| Target: | CPT1C |
| Binding Specificity: | AA 752-782, C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CPT1C antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

Product Details

| | |
|---------------|--|
| Immunogen: | This CPT1C antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 752-782 amino acids from the C-terminal region of human CPT1C. |
| Clone: | RB19024 |
| Isotype: | Ig Fraction |
| Purification: | This antibody is purified through a protein A column, followed by peptide affinity purification. |

Target Details

| | |
|-------------------|---|
| Target: | CPT1C |
| Alternative Name: | CPT1C (CPT1C Products) |
| Background: | The Cpt1 family of proteins are outer mitochondrial membrane proteins that regulate the entry |

Target Details

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.

Molecular Weight: 90989

Gene ID: 126129

NCBI Accession: [NP_001129524](#), [NP_001186681](#), [NP_001186682](#), [NP_689572](#)

UniProt: [Q8TCG5](#)

Pathways: [AMPK Signaling](#), [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: WB: 1:1000. FC: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

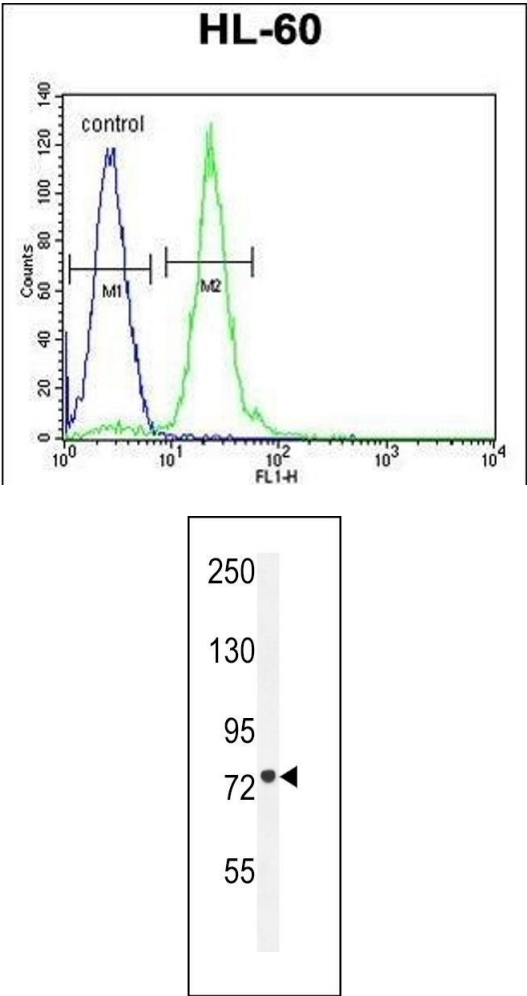
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months



Flow Cytometry

Image 1. CPT1C Antibody (C-term) (ABIN655406 and ABIN2844952) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. CPT1C Antibody (C-term) (ABIN655406 and ABIN2844952) western blot analysis in HL-60 cell line lysates (35 µg/lane).This demonstrates the CPT1C antibody detected the CPT1C protein (arrow).