

Datasheet for ABIN3030284
anti-CPT1C antibody (AA 596-625)[Go to Product page](#)

2 Images

Overview

| | |
|----------------------|--------------------------------------|
| Quantity: | 0.4 mL |
| Target: | CPT1C |
| Binding Specificity: | AA 596-625 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CPT1C antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

| | |
|---------------|--|
| Immunogen: | A portion of amino acids 596-625 from the human protein was used as the immunogen for this CPT1C antibody. |
| Isotype: | Ig Fraction |
| Purification: | Antigen affinity purified |

Target Details

| | |
|-------------------|--|
| Target: | CPT1C |
| Alternative Name: | CPT1C (CPT1C Products) |
| 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 |

Target Details

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.

UniProt: [Q8TCG5](#)

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

Application Details

Application Notes: Titration of the CPT1C antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000

Restrictions: For Research Use only

Handling

Format: Liquid

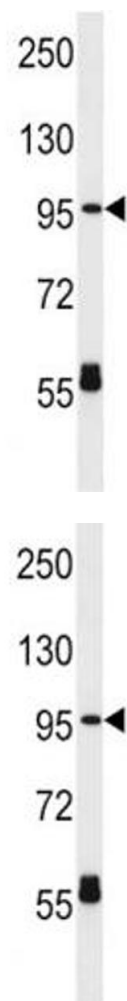
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

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: -20 °C

Storage Comment: Aliquot the CPT1C antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. CPT1C antibody western blot analysis in HL-60 lysate. Predicted molecular weight 81-91 kDa.

Western Blotting

Image 2. CPT1C antibody western blot analysis in HL-60 lysate. Predicted molecular weight 81-91 kDa.