

A Reliable Research Partner in Life Science and Medicine

# **Recombinant CPT1B Monoclonal Antibody**

catalog number: AN301956L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Human;

Immunogen Recombinant human CPT1B fragment

HostRabbitIsotype $IgG, \kappa$ CloneA672

Purification Protein A purified

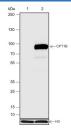
Buffer PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

# Applications Recommended Dilution

**WB** 1:1000-1:5000

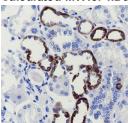
IHC 1:50

#### Data

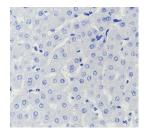


Western Blot with CPT1B Monoclonal Antibody at dilution of 1:5000. Lane 1: Human liver(-), Lane 2: Human heart

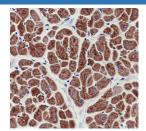
Observed-MW:87 kDa Calculated-MW:87 kDa



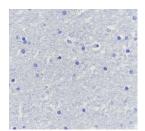
Immunohistochemistry of paraffin-embedded Human kidney using CPT1B Monoclonal Antibody at dilution of 1:50.



Immunohistochemistry of paraffin-embedded Human liver(Negative tissue) using CPT1B Monoclonal Antibody at dilution of 1:50.



Immunohistochemistry of paraffin-embedded Human cardiac muscle using CPT1B Monoclonal Antibody at dilution of 1:50.



Immunohistochemistry of paraffin-embedded Human cerebrum(Negative tissue) using CPT1B Monoclonal Antibody at dilution of 1:50.

### For Research Use Only

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#### **Elabscience Bionovation Inc.**

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## **Preparation & Storage**

Storage Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

Shipping Ice bag

### **Background**

Carnitine palmitoyltransferase-1 (CPT1), localized to the mitochondrial outer membrane, translocates fatty acids across the mitochondrial membranes and catalyzes the rate-limiting step of  $\beta$ -oxidation. There are three isoforms of this enzyme: CPT1A (liver), CPT1B (muscle), and CPT1C (brain). Deficiency of CPT1A results in an autosomal recessive mitochondrial fatty acid oxidation disorder. Studies have shown that physiological high blood glucose and insulin levels inhibit CPT1B activity in human muscle and therefore divert long-chain fatty acids toward storage in human muscle as triglycerides. Furthermore, mice deficient in CPT1C show less food intake and reduced body weight. These findings suggest that CPT1 may play a role in metabolic syndromes.

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