

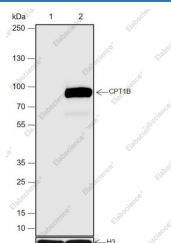
Recombinant CPT1B Monoclonal Antibody

catalog number: **AN301956L**

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

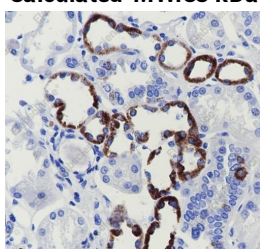
Description	
Reactivity	Human
Immunogen	A synthetic peptide of human CPT1B
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331577
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.
Applications	
WB	1:1000-1:5000

Data

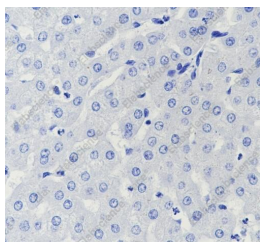


Western Blot with CPT1B Monoclonal Antibody at dilution of 1:5000. Lane 1: Human liver(-), Lane 2: Human heart

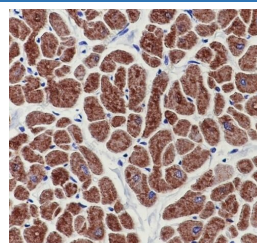
Observed-MW:88 kDa
Calculated-MW:88 kDa



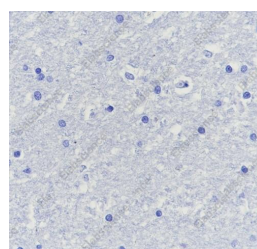
Immunohistochemistry of paraffin-embedded Human kidney using CPT1B Monoclonal Antibody at dilution of 1:50.



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.

Preparation & Storage

For Research Use Only

Toll-free: 1-888-852-8623
Web: www.elabscience.com

Tel: 1-832-243-6086
Email: techsupport@elabscience.com

Fax: 1-832-243-6017

Rev. V1.5

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 β -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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