

## CPT1A

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**88kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human CPT1A

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

h

**Synonym:**

CPT1; CPT1-L; L-CPT1

**Catalog #:**A5307

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**1374

**Isotype:**IgG

**Swiss Prot:**P50416

**Purity:**Affinity purification

For research use only.

**Background:**

The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

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