

Product datasheet for TA336036

CPT1A Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications:IHC, WBRecommended Dilution:IHC, WBReactivity:HumanHost:RabbitIsotype:IgG

Clonality: Polyclonal

Immunogen: The immunogen for Anti-CPT1A Antibody: synthetic peptide directed towards the middle

region of human CPT1A. Synthetic peptide located within the following region:

LSTSQTPQQQVELFDLENNPEYVSSGGGFGPVADDGYGVSYILVGENLIN

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

Purification: Affinity Purified
Conjugation: Unconjugated

Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Predicted Protein Size: 86 kDa

Gene Name: carnitine palmitoyltransferase 1A

Database Link: NP 001027017

Entrez Gene 1374 Human

P50416



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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. 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.

Synonyms: CPT1; CPT1-L; L-CPT1

Note: Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human:

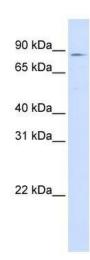
100%; Mouse: 100%; Sheep: 100%; Bovine: 100%; Rabbit: 100%; Zebrafish: 100%; Guinea pig:

100%

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Adipocytokine signaling pathway, Fatty acid metabolism, PPAR signaling pathway

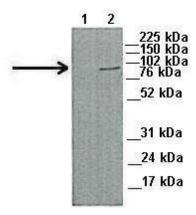
Product images:



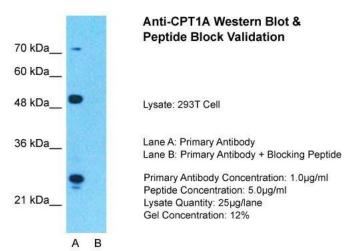
WB Suggested Anti-CPT1A Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1: 312500; Positive Control: 293T cell lysate



CPT1A

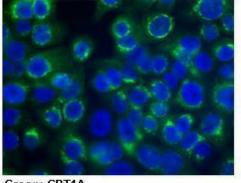


Lanes: 1. 45ug capan1 cell lysate; 2. 45 ug HPAF cell lysate; Primary Antibody Dilution: 1: 1000; Secondary Antibody: Anti-Rabbit HRP; Secondary Antibody Dilution: 1: 5000; Gene Name: CPT1A; Submitted by: Dr. Pankaj Singh, UNMC, Omaha, NE;



Host: Rabbit; Target Name: CPT1A; Sample Tissue: 293T; Lane A: Primary Antibody; Lane B: Primary Antibody + Blocking Peptide; Primary Antibody Concentration: 1 ug/ml; Peptide Concentration: 5 ug/ml; Lysate Quantity: 25 ug/lane/lane; Gel Concentration: 0.12

CPT1A



Green: CPT1A Blue: DAPI Sample Type: Human Capan1 cells (Pancreatic cancer cell line) Primary Antibody Dilution: 1: 300; Secondary Antibody: Anti-rabbit-AlexaFluor-488; Secondary Antibody: ilution: 1: 200; Color/Signal Descriptions: CPT1A: Green DAPI: Blue; Gene Name: CPT1A; Submitted by: Dr. Pankaj Singh, UNMC, Omaha, NE