

Datasheet for ABIN677018
anti-CPT1A antibody (AA 1-100)[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	CPT1A
Binding Specificity:	AA 1-100
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPT1A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CPT1A
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	CPT1A
Alternative Name:	CPT1A (CPT1A Products)
Background:	Synonyms: CPT1, CPT1-L, L-CPT1, Carnitine O-palmitoyltransferase 1, liver isoform, Carnitine O-palmitoyltransferase I, liver isoform, CPT I, CPTI-L, Carnitine palmitoyltransferase 1A, CPT1A

Target Details

Background: Catalyzes the transfer of the acyl group of long-chain fatty acid-CoA conjugates onto carnitine, an essential step for the mitochondrial uptake of long-chain fatty acids and their subsequent beta-oxidation in the mitochondrion. Plays an important role in triglyceride metabolism.

Gene ID: 1374

UniProt: [P50416](#)

Pathways: [AMPK Signaling](#), [Regulation of Lipid Metabolism by PPARalpha](#), [Feeding Behaviour](#), [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-P 1:200-400

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Storage: 4 °C, -20 °C

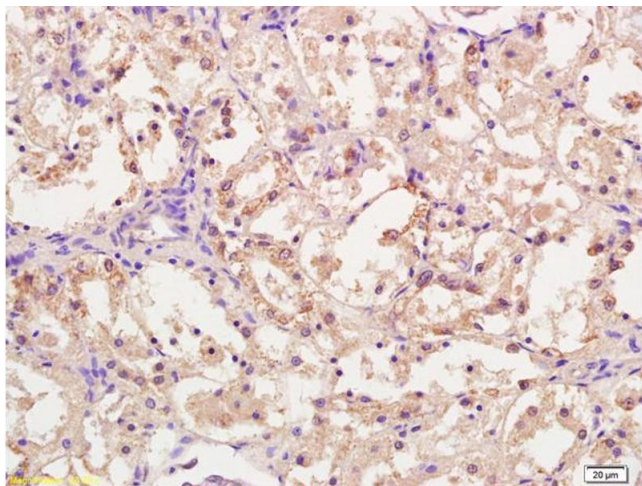
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Fan, Wang, Ge, Wang, Li, Kong: "Betaine supplementation protects against high-fructose-induced renal injury in rats." in: **The Journal of nutritional biochemistry**, Vol. 25, Issue 3, pp. 353-62, (2014) ([PubMed](#)).

Wang, Pan, Hong, Zhang, Wang, Kong: "Quercetin Protects against Cadmium-Induced Renal Uric Acid Transport System Alteration and Lipid Metabolism Disorder in Rats." in: **Evidence-based complementary and alternative medicine : eCAM**, Vol. 2012, pp. 548430, (2012) ([PubMed](#)).



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat kidney tissue labeled with Anti-CPT1A Polyclonal Antibody, Unconjugated (ABIN677018) at 1:200, followed by conjugation to the secondary antibody and DAB staining