

## Product datasheet for **TA323382**

### CPT1A Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 25-100 Positive control: Human stomach cancer Predicted cell location: Cytoplasm, Cell membrane
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to C terminal 300 amino acids of human carnitine palmitoyltransferase 1A (liver)
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	carnitine palmitoyltransferase 1A
Database Link:	<a href="#">NP_001867</a> <a href="#">Entrez Gene 12894 Mouse</a> <a href="#">Entrez Gene 25757 Rat</a> <a href="#">Entrez Gene 1374 Human</a> <a href="#">P50416</a>

**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.



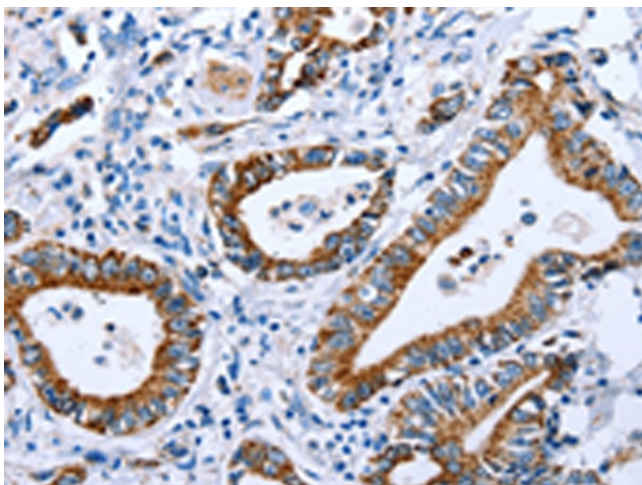
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**Synonyms:** CPT1; CPT1-L; L-CPT1

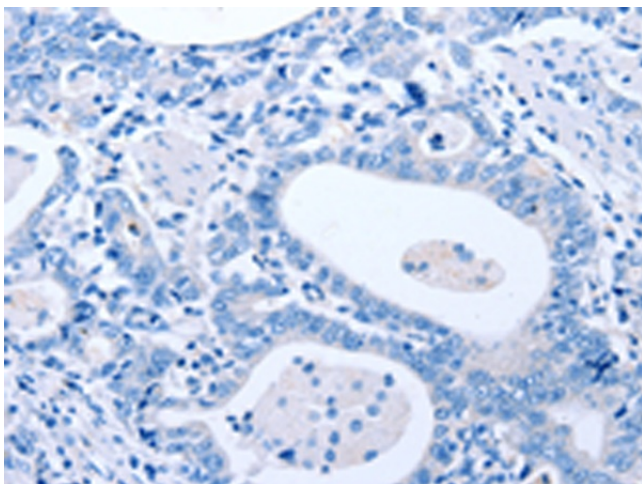
**Protein Families:** Druggable Genome, Transmembrane

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

**Product images:**



Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using TA323382 (CPT1A Antibody) at dilution 1/25 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using TA323382 (CPT1A Antibody) at dilution 1/25, treated with fusion protein. (Original magnification: ×200)