

Rabbit CPT1A Polyclonal Antibody | anti-CPT1A antibody

CPT1A Antibody

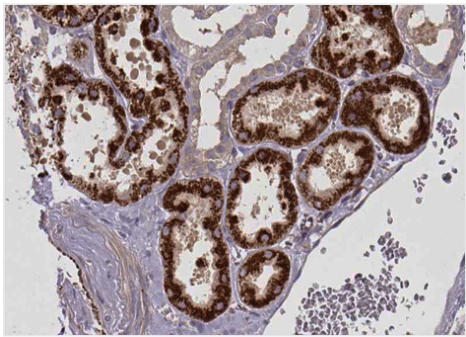
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322831	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

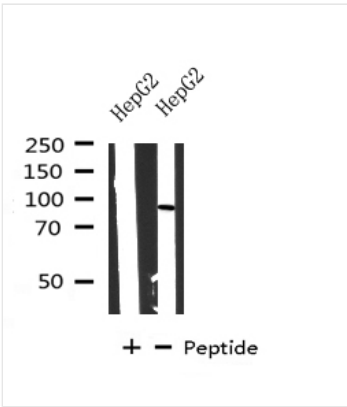
CPT1A; Polyclonal Antibody; CPT1A Antibody; Carnitine O palmitoyltransferase 1 liver isoform; Carnitine O palmitoyltransferase I; Carnitine O palmitoyltransferase I liver isoform; Carnitine O-palmitoyltransferase 1; Carnitine O-palmitoyltransferase I; Carnitine palmitoyltransferase 1A (liver); Carnitine palmitoyltransferase 1A; Carnitine palmitoyltransferase I; Carnitine palmitoyltransferase I liver; CPT 1; CPT I; CPT1; CPT1 L; CPT1-L; Cpt1a; CPT1A_HUMAN; CPTI; CPTI-L; L CPT1; liver isoform; anti-CPT1A antibody

PRODUCT SPECIFICATIONS

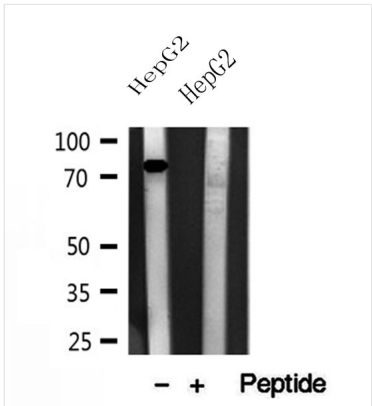
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CPT1A antibody detects endogenous levels of CPT1A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	756
Applicable Applications for anti-CPT1A antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CPT1A.
Subcellular Location	Mitochondrion Outer Membrane
Tissue Specificity	Strong expression in kidney and heart, and lower in liver and skeletal muscle.
Predicted Cross Reactivity	Bovine, Dog
Similarity	Bovine (85%), Dog (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA322831 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on HepG2 cells lysate using CPT1A antibody



WB (Western Blot)
Western blot analysis of extracts of HepG2 cells, using CPT1A antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CPT1A antibody	Function: 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.
	Subunit Structure: Homohexamer and homotrimer. Identified in a complex that contains at least CPT1A, ACSL1 and VDACL1. Also identified in complexes with ACSL1 and VDACL2 and VDACL3 (By similarity).
	Similarity: A conformation change in the N-terminal region spanning the first 42 residues plays an important role in the regulation of enzyme activity by malonyl-CoA. Belongs to the carnitine/choline acetyltransferase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73623028
NCBI GeneID	1374
NCBI Accession #	NP_001027017.1
NCBI GenBank Nucleotide #	NM_001031847.2
UniProt Accession #	P50416; Q8TCU0; Q9BWK0
Molecular Weight	Observed: 86 kDa Predicted: 89 kDa
NCBI Official Full Name	carnitine O-palmitoyltransferase 1, liver isoform isoform 2
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1A

NCBI Official Symbol	CPT1A
NCBI Official Synonym Symbols	CPT1; CPT1-L; L-CPT1
NCBI Protein Information	carnitine O-palmitoyltransferase 1, liver isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, liver isoform
UniProt Gene Name	CPT1A
UniProt Synonym Gene Names	CPT1; CPT1-L; CPT I; CPTI-L

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cpt1a-antibody-immunohistochemistry-western-blot-elisa/322831>