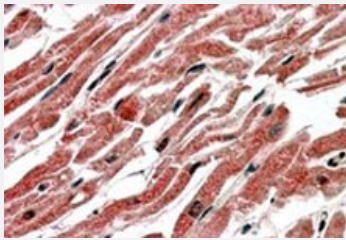


CPT1B polyclonal antibody

Catalog # PAB6190 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

CPT1B polyclonal antibody (Cat # PAB6190) (3.8 ug/mL) staining of paraffin embedded human heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of CPT1B.
Immunogen	A synthetic peptide corresponding to human CPT1B.
Sequence	C-DIADLFQVPKAYS
Host	Goat
Theoretical MW (kDa)	87.8, 83.9, 78.8
Reactivity	Human
Specificity	This antibody is expected to recognize human isoforms a (as represented by NP_004368.1, NP_689451.1 and NP_689452.1), but not isoform b (NP_689453.1).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.

Recommend Usage	ELISA (1:16000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

CPT1B polyclonal antibody (Cat # PAB6190) (3.8 ug/mL) staining of paraffin embedded human heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CPT1B

Entrez GeneID	1375
Protein Accession#	NP_004368.1 ; NP_689451.1 ; NP_689452.1
Gene Name	CPT1B
Gene Alias	CPT1-M, KIAA1670, M-CPT1, MCCPT1
Gene Description	carnitine palmitoyltransferase 1B (muscle)
Omim ID	601987
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene, a member of the carnitine/choline acetyltransferase family, is the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle mitochondria. This enzyme is required for the net transport of long-chain fatty acyl-CoAs from the cytoplasm into the mitochondria. Multiple transcript variants encoding different isoforms have been found for this gene, and read-through transcripts are expressed from the upstream locus that include exons from this gene. [provided by RefSeq]
Other Designations	CPTI, muscle carnitine O-palmitoyltransferase I, mitochondrial muscle isoform carnitine palmitoyltransferase 1A (muscle) carnitine palmitoyltransferase 1B

Publication Reference

- [Isolation and characterization of cDNA and genomic clones encoding human muscle type carnitine palmitoyltransferase I.](#)

Yamazaki N, Shinohara Y, Shima A, Yamanaka Y, Terada H.

Biochimica et Biophysica Acta 1996 Jun; 1307(2):157.

Pathway

- [Adipocytokine signaling pathway](#)
- [Fatty acid metabolism](#)
- [PPAR signaling pathway](#)

Disease

- [Alzheimer disease](#)
- [Cardiovascular Diseases](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Disorders of Excessive Somnolence](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Hypertrophy](#)
- [Metabolic Syndrome X](#)
- [Narcolepsy](#)
- [Neoplasms](#)
- [Obesity](#)

- [Osteoporosis](#)