



CPTI-M Monoclonal Antibody

Catalog No	YP-mAb-03790
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CPT1B
Immunogen	The antiserum was produced against synthesized peptide derived from human CPT1B. AA range:401-450
Specificity	CPTI-M Monoclonal Antibody detects endogenous levels of CPTI-M protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	muscle isoform;Carnitine O palmitoyltransferase 1B;Carnitine O palmitoyltransferase I mitochondrial muscle isoform;Carnitine O palmitoyltransferase I muscle isoform;Carnitine O-palmitoyltransferase 1; Carnitine O-palmitoyltransferase I;Carnitine palmitoyltransferase 1A (muscle); Carnitine palmitoyltransferase 1B (muscle);Carnitine palmitoyltransferase 1B; Carnitine palmitoyltransferase I like protein;Carnitine palmitoyltransferase I muscle;Carnitine palmitoyltransferase I-like protein;CPT 1B;CPT I;CPT1 M; CPT1 muscle;CPT1-M;Cpt1b;CPT1B_HUMAN;CPT1M;CPTI;CPTI M;CPTI muscle;CPTI-M;CPTIM;FLJ55729;FLJ5875;KIAA167;M CPT1;M-CPT1; MCCPT1;MCPT1;Carnitine O-palmitoyltransferase 1 muscle isoform;KIAA1670; muscle isoform
Observed Band	88kD
Calculated Molecular Weight	88kD
Cell Pathway	Mitochondrion outer membrane ; Multi-pass membrane protein .
Tissue Specificity	Strong expression in heart and skeletal muscle. No expression in liver and kidney.



Function

catalytic activity:ATP + choline = ADP + O-phosphocholine.,catalytic activity:ATP + ethanolamine = ADP + O-phosphoethanolamine.,catalytic activity:Palmitoyl-CoA + L-carnitine = CoA + L-palmitoylcarnitine.,miscellaneous:This protein is produced by a bicistronic gene which also produces the CHKB protein from a non-overlapping reading frame.,miscellaneous:This protein is produced by a bicistronic gene which also produces the CPT1B protein from a non-overlapping reading frame.,pathway:Lipid metabolism; fatty acid beta-oxidation.,similarity:Belongs to the carnitine/choline acetyltransferase family.,similarity:Belongs to the choline/ethanolamine kinase family.,tissue specificity:Strong expression in heart and skeletal muscle. No expression in liver and kidney.,

Background

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, Jun 2009],

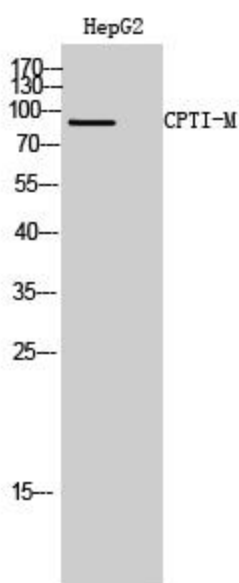
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using CPTI-M Monoclonal Antibody