



# CPTI-M Monoclonal Antibody

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

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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],

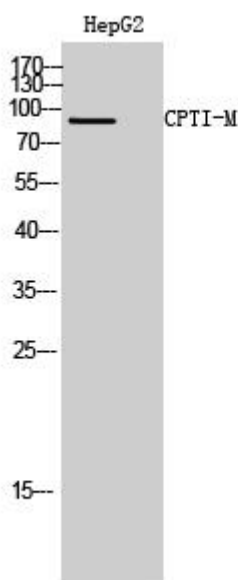
## matters needing attention

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