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## anti-CPT1B antibody (AA 533-772)

4 Images

2

**Publications** 



Go to Product page

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Purification:

Quantity:	100 μL		
Target:	CPT1B		
Binding Specificity:	AA 533-772		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This CPT1B antibody is un-conjugated		
Application:	Western Blotting (WB), Immunohistochemistry (IHC)		
Product Details			
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 533-772 of human CPT1B (NP_004368.1).		
Sequence:	SYQVAKALAD DVELYCFQFL PFGKGLIKKC RTSPDAFVQI ALQLAHFRDR GKFCLTYEAS MTRMFREGRT ETVRSCTSES TAFVQAMMEG SHTKADLRDL FQKAAKKHQN MYRLAMTGAG IDRHLFCLYL VSKYLGVSSP FLAEVLSEPW RLSTSQIPQS QIRMFDPEQH PNHLGAGGGF GPVADDGYGV SYMIAGENTI FFHISSKFSS SETNAQRFGN HIRKALLDIA DLFQVPKAYS		
Isotype:	IgG		
Cross-Reactivity:	Human, Mouse, Rat		
Characteristics:	Polyclonal Antibodies		
D :::	ACC 19 10 10 11		

Affinity purification

## **Target Details**

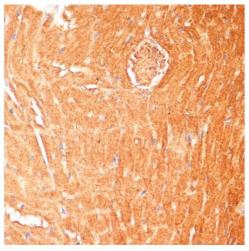
Target:	CPT1B		
Alternative Name:	CPT1B (CPT1B Products)		
Background:	The protein encoded by this gene, a member of the carnitine/choline acetyltransferase family, is		
	the rate-controlling enzyme of the long-chain fatty acid beta-oxidation pathway in muscle		
	mitochondria. This enzyme is required 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.,CPT1B,CPT1-M,CPT1M,CPTI,CPTI-M,M-		
	CPT1,MCCPT1,MCPT1,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial		
	metabolism,Mitochondrial markers,Lipid Metabolism,Endocrine and metabolic		
	diseases,Obesity,Cardiovascular,Heart,Cardiac metabolism,Lipids,Fatty Acids,CPT1B		
Molecular Weight:	66 kDa/78 kDa/83 kDa/87 kDa		
Gene ID:	1375		
UniProt:	Q92523		
Pathways:	AMPK Signaling, Monocarboxylic Acid Catabolic Process		
Application Details			
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200		
Comment:	HIGH QUALITY		
Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.		
Preservative:	Sodium azide		
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which		
	should be handled by trained staff only.		
Storage:	-20 °C		
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.		

Product cited in:

Guan, Chen, Wang, Zhang, Fan, Gao, Jiao, Fu, Sun, Yu, Huang, Bi: "Effects of carnitine palmitoyltransferases on cancer cellular senescence." in: Journal of cellular physiology, Vol. 234, Issue 2, pp. 1707-1719, (2019) (PubMed).

Yu, Zhang, Cui, Wang, Na, Zhu, Li, Xu, Yang, Christian, Liu: "Lipid droplet remodeling and interaction with mitochondria in mouse brown adipose tissue during cold treatment." in: Biochimica et biophysica acta, Vol. 1853, Issue 5, pp. 918-28, (2015) (PubMed).

## **Images**



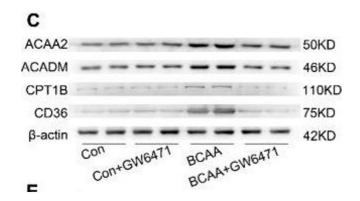
## 130KD-BT-474 B-cell Mouse kidney Mouse lung 100KD-70KD-55KD-

## **Immunohistochemistry**

Image 1. Immunohistochemistry of paraffin-embedded mouse heart using CPT1B antibody (ABIN6130130, ABIN6138978, ABIN6138979 and ABIN6222544) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

### **Western Blotting**

Image 2. Western blot analysis of extracts of various cell lines, using CPT1B antibody.



## **Western Blotting**

Image 3. BCAA upregulate PPAR-α and PPAR-α targeted genes. (A to B) Adult mouse cardiac myocytes were treated with different concentrations of BCAA (0, 0.429 mM, 0.858 mM, 1.716 mM, 3.432 mM) for 12 h (n=6). (A) Expression of PGC1-α, PPAR-γ, PPAR-α in cardiomyocytes by western blotting. (B) Expression of Ppara in cardiomyocytes by realtime PCR. (C-J) Adult cardiac myocytes were treated with Vehicle (Con), GW6471, BCAA, BCAA+GW6471 for 12 h. (C and D) Expression of ACAA2, ACADM, CD36, CPT1B in cardiomyocytes by western blotting and real-time PCR (n=6). (E) OCR curve of adult cardiac myocytes treated with Vehicle (Con), GW6471, BCAA, BCAA+GW6471 were determined (n=5). (F) Basal respiration (G) ATP production (H) maximal respiration (I) basal respiration due to exogenous palmitate-BSA and (J) maximal respiration due to exogenous palmitate-BSA were calculated according to instruction. N=5 per group. \* P<0.05, \*\* P<0.01. Data were analyzed by one-way ANOVA, followed by a Bonferroni posthoc test. All values are presented as mean ± SEM. - figure provided by CiteAb. Source: PMID32373236

Please check the product details page for more images. Overall 4 images are available for ABIN6138978.