

CPT1B Polyclonal Antibody | anti-CPT1B antibody

Anti-CPT1B Antibody

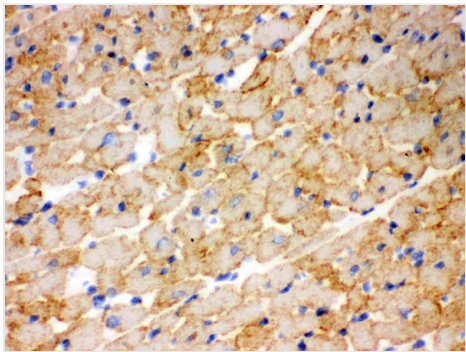
CATALOG # AAA46229	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

CPT1B; Polyclonal Antibody; Anti-CPT1B Antibody; Carnitine O-palmitoyltransferase 1; muscle isoform; Carnitine O palmitoyltransferase I mitochondrial muscle isoform; Carnitine O palmitoyltransferase I muscle isoform; Carnitine O-palmitoyl transferase 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; FLJ58750; KIAA1670; M CPT1; M-CPT1; MCCPT1; MCPT1; carnitine palmitoyltransferase 1B (muscle); anti-CPT1B antibody

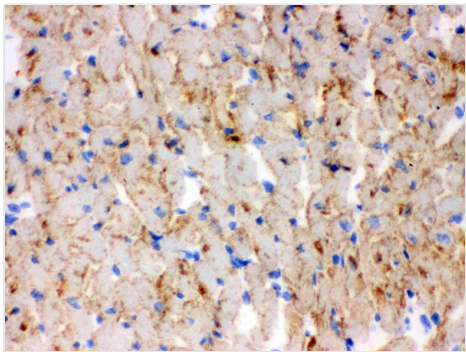
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	738
Applicable Applications for anti-CPT1B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human CPT1B (197-226aa DDEEYYRMELLAKEFQDKTAPRLQKYLVLK), different from the related mouse sequence by two amino acids, and from the related rat sequence by four amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



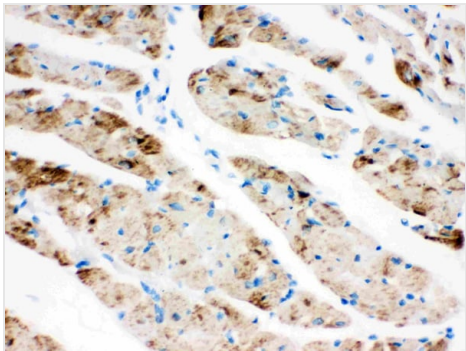
IHC (Immunohistochemistry)

Figure 5. IHC analysis of CPT1B using anti-CPT1B antibody (AAA46229).CPT1B was detected in frozen section of rat cardiac muscle tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPT1B Antibody (AAA46229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



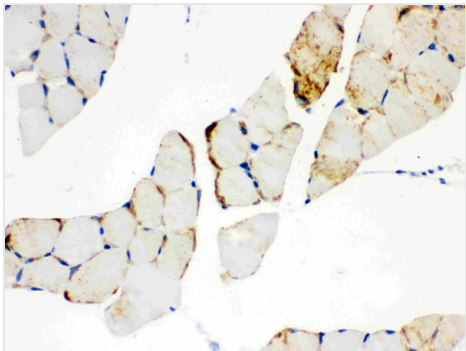
IHC (Immunohistochemistry)

Figure 4. IHC analysis of CPT1B using anti-CPT1B antibody (AAA46229).CPT1B was detected in frozen section of mouse cardiac muscle tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPT1B Antibody (AAA46229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



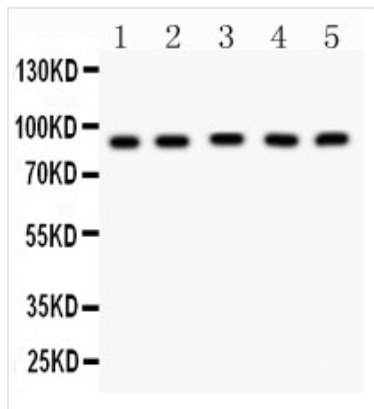
IHC (Immunohistochemistry)

Figure 3. IHC analysis of CPT1B using anti-CPT1B antibody (AAA46229).CPT1B was detected in paraffin-embedded section of Rat Cardiac Muscle Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPT1B Antibody (AAA46229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of CPT1B using anti-CPT1B antibody (AAA46229).CPT1B was detected in paraffin-embedded section of Mouse Skeletal Muscle Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-CPT1B Antibody (AAA46229) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of CPT1B using anti-CPT1B antibody (AAA46229). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: Rat Skeletal Muscle Tissue Lysate, Lane 2: Rat Cardiac Muscle Tissue Lysate, Lane 3: Mouse Skeletal Muscle Tissue Lysate, Lane 4: Mouse Cardiac Muscle Tissue Lysate, Lane 5: HELA Whole Cell Lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CPT1B antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CPT1B at approximately 88KD. The expected band size for CPT1B is at 88KD.

ADDITIONAL INFORMATION

Related Product Information for anti-CPT1B antibody	Description: Rabbit IgG polyclonal antibody for Carnitine O-palmitoyltransferase 1, muscle isoform (CPT1B) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: CPT1B is located on 22q13.33. 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.
References	1. Auinger A; Rubin D; Sabandal M; Helwig U; R��ther A; Schreiber S; Foelsch UR; D��ring F; Schrezenmeir J. "A common haplotype of carnitine palmitoyltransferase 1b is associated with the metabolic syndrome". Br J Nutr, 2013 Mar 14.

NCBI AND UNIPROT INFORMATION

NCBI GI #	223468670
NCBI GeneID	1375
NCBI Accession #	NP_001138606.1
NCBI GenBank Nucleotide #	NM_001145134.1
UniProt Accession #	Q92523 ; Q13389 ; Q99655 ; Q9BY90 ; B7Z4U4 ; B7Z5T8 ; E9PCP2
Molecular Weight	78,844 Da
NCBI Official Full Name	carnitine O-palmitoyltransferase 1, muscle isoform isoform c
NCBI Official Synonym Full Names	carnitine palmitoyltransferase 1B
NCBI Official Symbol	CPT1B
NCBI Official Synonym Symbols	CPTI; CPT1M; MCPT1; CPT1-M; CPTI-M; M-CPT1; MCCPT1

NCBI Protein Information	carnitine O-palmitoyltransferase 1, muscle isoform
UniProt Protein Name	Carnitine O-palmitoyltransferase 1, muscle isoform
UniProt Gene Name	CPT1B
UniProt Synonym Gene Names	KIAA1670; CPT1-M; CPT I; CPTI-M
UniProt Entry Name	CPT1B_HUMAN

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/cpt1b-antibody-immunohistochemistry-western-blot-elisa/46229>