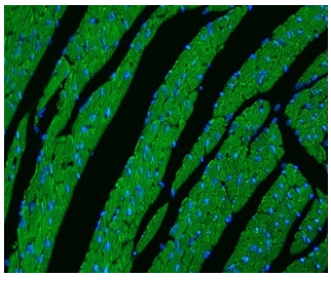
CPT1B Antibody (R32293)

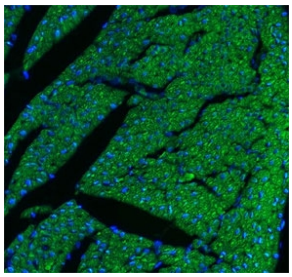
Catalog No.	Formulation	Size
R32293	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

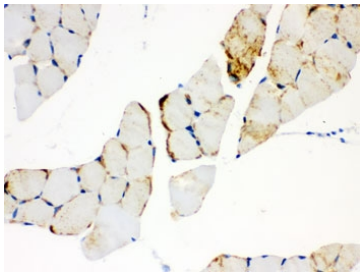
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% BSA, 0.025% sodium azide
UniProt	Q92523
Localization	Cytoplasmic
Applications	Western blot: 0.1-0.5ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml Immunohistochemistry (Frozen): 0.5-1ug/ml Immunofluorescence: 5ug/ml
Limitations	This CPT1B antibody is available for research use only.



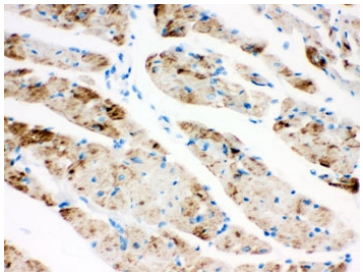
Immunofluorescent staining of FFPE mouse heart tissue with CPT1B antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



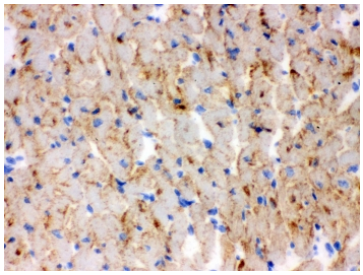
Immunofluorescent staining of FFPE rat heart tissue with CPT1B antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



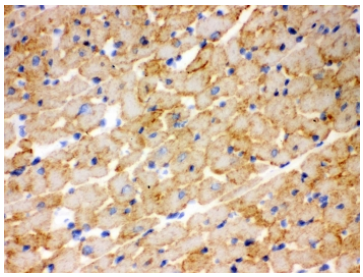
IHC testing of FFPE mouse skeletal muscle and CPT1B antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



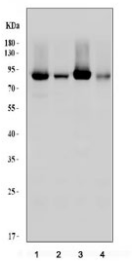
IHC testing of FFPE rat heart and CPT1B antibody. HIER: Boil the paraffin sections in pH 6, 10mM citrate buffer for 20 minutes and allow to cool prior to staining.



IHC testing of frozen mouse heart tissue with CPT1B antibody.



IHC testing of frozen rat heart tissue with CPT1B antibody.



Western blot testing of 1) rat heart, 2) rat skeletal muscle, 3) mouse heart, and 4) mouse skeletal muscle lysate wtih CPT1B antibody. Expected molecular weight ~88 kDa.

Description

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.

Application Notes

Optimal dilution of the CPT1B antibody should be determined by the researcher.

Immunogen

Amino acids DDEEYYRMELLAKEFQDKTAPRLQKYLVLK of human CPT1B were used as the immunogen for the CPT1B antibody.

Storage

After reconstitution, the CPT1B antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Copyright © NSJ Bioreagents. All rights reserved.