

# Product Datasheet

## CPT1B Antibody - BSA Free

### NBP1-59576-100ul

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP1-59576-100ul**

CPT1B Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	88 kDa

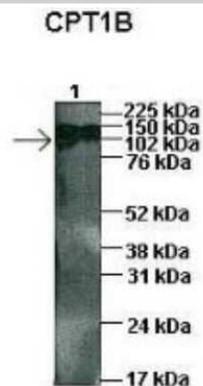
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	1375
Gene Symbol	CPT1B
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 31013835).
Immunogen	Synthetic peptides corresponding to CPT1B(carnitine palmitoyltransferase 1B (muscle)) The peptide sequence was selected from the middle region of CPT1B. Peptide sequence DLEMQRILDDPSPQPGEKLAALTAGGRVEWAQARQAFFSSGKNKAA. The peptide sequence for this immunogen was taken from within the described region.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunohistochemistry 1:300, Immunohistochemistry-Paraffin

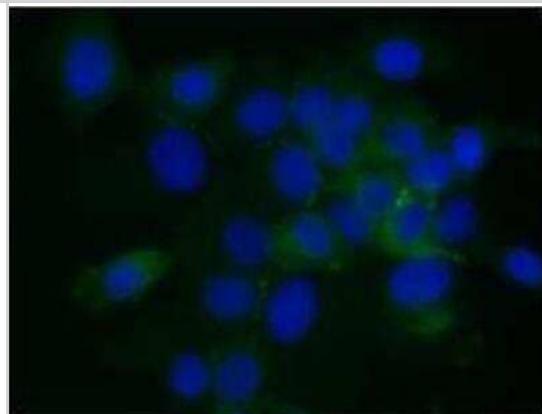


**Images**

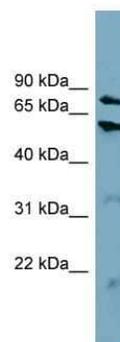
Western Blot: CPT1B Antibody [NBP1-59576] - Sample Type : 1: 45ug human capan1 cell lysate Primary Antibody Dilution : 1:1000 Secondary Antibody : Anti-rabbit HRP Secondary Antibody Dilution : 1:5000 Color



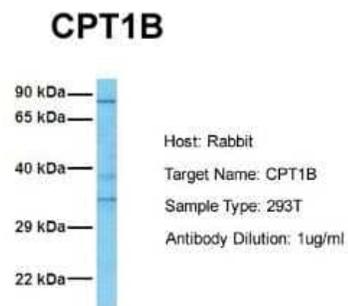
Immunohistochemistry: CPT1B Antibody [NBP1-59576] - searcher: Dr. Pankaj Kumar Singh, UNMC, Omaha, NE Application: IHC Species +tissue/cell type:Species+tissue/cell type: Human Capan1 cells Primary antibody dilution: 1:300 Secondary antibody: Anti-rabbit Alexa Fluor 488 Secondary antibody dilution:1:200



Western Blot: CPT1B Antibody [NBP1-59576] - Titration: 0.2-1 ug/ml, Positive Control: HT1080 cell lysate.



Western Blot: CPT1B Antibody [NBP1-59576] - Sample Tissue: Human 293T Antibody Dilution: 1.0 ug/ml



## Publications

Zhang F, Liu L, Xie Y et al. Cardiac contractility modulation ameliorates myocardial metabolic remodeling in a rabbit model of chronic heart failure through activation of AMPK and PPAR- $\gamma$  pathway *Open Med (Wars)* 2022-02-22 [PMID: 35799598] (Western Blot)

de Souza SLB, Mota GAF, da Silva VL et al. Effects of early exercise on cardiac function and lipid metabolism pathway in heart failure *J Cell Mol Med* 2023-08-31 [PMID: 37654004] (Western Blot)

Pellegrin M, BouzourEne K, Aubert JF et al. Impact of aerobic exercise type on blood flow, muscle energy metabolism, and mitochondrial biogenesis in experimental lower extremity artery disease *Sci Rep* 2020-08-20 [PMID: 32820213] (WB, Mouse)

Chacinska, M;Zabielski, P;Ksiazek, M;Szataj, P;Jarzabek, K;Kojta, I;Chabowski, A;Btachnio-Zabielska, AU; The Impact of OMEGA-3 Fatty Acids Supplementation on Insulin Resistance and Content of Adipocytokines and Biologically Active Lipids in Adipose Tissue of High-Fat Diet Fed Rats *Nutrients* 2019-04-12 [PMID: 31013835] (WB, Rat)

de Toledo Frias F, Rocha KCE, de Mendonca M et al. Fenofibrate Reverses Changes Induced By High-Fat Diet On Metabolism In Mice Muscle And Visceral Adipocytes *J. Cell. Physiol.* 2017-09-19 [PMID: 28926107] (Mouse)

Brittain EL, Talati M, Fessel JP et al. Fatty Acid Metabolic Defects and Right Ventricular Lipotoxicity in Human Pulmonary Arterial Hypertension. *Circulation* 2016-05-17 [PMID: 27006481] (WB, Human)

### Details:

The Novus CPT1B antibody was used in western blotting of human tissue homogenates





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### **Products Related to NBP1-59576-100ul**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001375-Q01-10ug	Recombinant Human CPT1B GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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