Datasheet for ABIN2782010

anti-CPT1A antibody (Middle Region)

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Overview

Quantity:	100 µL
Target:	CPT1A
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPT1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human CPT1A
Sequence:	LSTSQTPQQQ VELFDLENNP EYVSSGGGFG PVADDGYGVS YILVGENLIN
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Sheep: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against CPT1A. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	CPT1A

Target Details

Alternative Name:	CPT1A (CPT1A Products)
Background:	The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation.The mitochondrial oxidation of long-chain fatty acids is initiated by the sequential action of carnitine palmitoyltransferase I (which is located in the outer membrane and is detergent-labile) and carnitine palmitoyltransferase II (which is located in the inner membrane and is detergent-stable), together with a carnitine-acylcarnitine translocase. CPT I is the key enzyme in the carnitine-dependent transport across the mitochondrial inner membrane and its deficiency results in a decreased rate of fatty acid beta-oxidation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Alias Symbols: CPT1, CPT1-L, L-CPT1 Protein Interaction Partner: UBC, SUMO2, LGR4, RNF2, FBXO6, PARK2, LYN, CLN3, HDAC11, KBTBD7, NPDC1, HSPA5, NR4A1, CYBA, CLIC1, SNRNP200, ERLIN1, TOMM40, EIF3C, PCBP1, NDUFV1, NDUFS1, NDUFA2, LPP, CPS1, ATP6V1C1, RHOA, PCK1, BCL2, Protein Size: 756
Molecular Weight:	86 kDa
Gene ID:	1374
NCBI Accession:	NM_001031847, NP_001027017
UniProt:	P50416
Pathways:	AMPK Signaling, Regulation of Lipid Metabolism by PPARalpha, Feeding Behaviour, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 756 AA
Restrictions:	For Research Use only

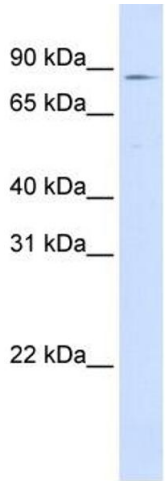
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Derebecka-Holysz, Lehmann, Holysz, Trzeciak: "SMAD3 inhibits SF-1-dependent activation of the CYP17 promoter in H295R cells." in: **Molecular and cellular biochemistry**, Vol. 307, Issue 1-2, pp. 65-71, (2007) (PubMed).

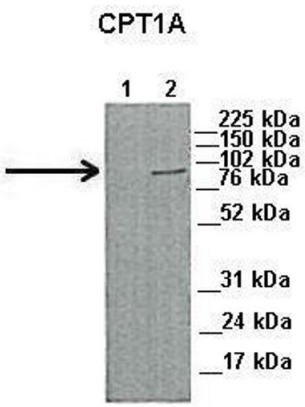
Images



Western Blotting

Image 1. WB Suggested Anti-CPT1A Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 293T cell lysate

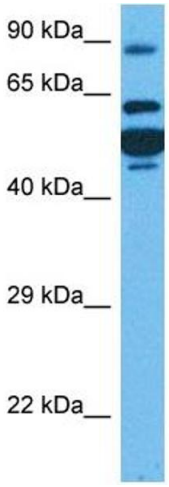
Images



See Immunoblot 2 Data and Customer Feedback for more information

Western Blotting

Image 2. Lanes: 1. 45ug capan1 cell lysate 2. 45 ug HPAF cell lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-Rabbit HRP Secondary Antibody Dilution: 1:5000 Gene Name: CPT1A Submitted by: Dr. Pankaj Singh, UNMC, Omaha, NE



Western Blotting

Image 3. Host: Rabbit Target Name: CPT1A Sample Tissue: Human HT1080 Whole Cell Antibody Dilution: 1ug/ml

Please check the product details page for more images. Overall 7 images are available for ABIN2782010.