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Datasheet for ABIN1391149
anti-CPT1C antibody (AA 121-170) (Biotin)

Overview

Quantity:	100 µL
Target:	CPT1C
Binding Specificity:	AA 121-170
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPT1C antibody is conjugated to Biotin
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Cpt1c
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Pig, Horse
Purification:	Purified by Protein A.

Target Details

Target:	CPT1C
Alternative Name:	Cpt1c (CPT1C Products)
Background:	Synonyms: CPT1-C, Carnitine acyltransferase like protein 1, Carnitine acyltransferase like

Target Details

protein1, Carnitine O palmitoyltransferase I, brain isoform, Carnitine palmitoyltransferase 1, brain, Carnitine palmitoyltransferase 1C, Carnitine palmitoyltransferase I related C, Carnitine palmitoyltransferase1C, CAT L1, CATL 1, CATL1, CPT 1 like pseudogene, Cpt 1c, CPT 1P, CPT I C, Cpt1 c, CPT1 like pseudogene, CPT1P , CPTIC.CPT1C_HUMAN

Background: The Cpt1 family of proteins are outer mitochondrial membrane proteins that regulate the entry into, and oxidation of fatty acids by, mitochondria. Malonyl-CoA, an intermediate in fatty acid synthesis, has been implicated as a regulatory component of the energy sensing system that feeds into hypothalamic neurons to impart energy homeostasis. Malonyl-CoA levels in the hypothalamus are dynamically regulated by fasting and feeding, altering subsequent feeding behaviour. Cpt1c, the brain-specific carnitine O-palmitoyltransferase 1, is thought to relay information about malonyl-CoA levels in hypothalamic neurons that express orexigenic and anorexigenic neuropeptides that regulate food intake and peripheral energy expenditure. Unlike other Cpt1 proteins, Cpt1c binds Malonyl-CoA but does not catalyse the transfer of the malonyl group from CoA to carnitine.

Gene ID:	126129
Pathways:	AMPK Signaling , Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C

Handling

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months