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Datasheet for ABIN1391147

anti-CPT1C antibody (AA 121-170) (Alexa Fluor 555)

Overview

Quantity:	100 µL
Target:	CPT1C
Binding Specificity:	AA 121-170
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CPT1C antibody is conjugated to Alexa Fluor 555
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

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: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

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. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months