abcam

Product datasheet

Anti-CPT2 antibody - C-terminal ab71435

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Overview

Product name	Anti-CPT2 antibody - C-terminal
Description	Rabbit polyclonal to CPT2 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide from the C terminal region of human CPT2 conjugated to KLH
Positive control	Mouse kidney tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Protein G purified
Purification notes	ab71435 is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab71435** in the following tested applications.

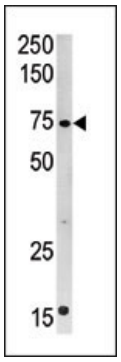
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/1000.
WB		1/100 - 1/500. Detects a band of approximately 74 kDa (predicted molecular weight: 74 kDa).

Target

Pathway	Lipid metabolism; fatty acid beta-oxidation.
Involvement in disease	Defects in CPT2 are the cause of carnitine palmitoyltransferase 2 deficiency (CPT2D) [MIM:255110, 600649]; also known as CPT-II deficiency or CPT2 deficiency. CPT2D is an autosomal recessive disorder characterized by recurrent myoglobinuria, episodes of muscle pain, stiffness, and rhabdomyolysis. These symptoms are triggered by prolonged exercise, fasting or viral infection and patients are usually young adults. In addition to this classical, late-onset, muscular type, a hepatic or hepatocardiomuscular form has been reported in infants. Clinical pictures in these children or neonates include hypoketotic hypoglycemia, liver dysfunction, cardiomyopathy and sudden death. Defects in CPT2 are the cause of carnitine palmitoyltransferase 2 deficiency, lethal neonatal (CPT2D-LN) [MIM:608836]; also known as lethal neonatal CPT-II deficiency. It is a lethal neonatal form of CPT2D. This rarely presentation is antenatal with cerebral periventricular cysts and cystic dysplastic kidneys. The clinical variability of the disease is likely attributed to the variable residual enzymatic activity.
Sequence similarities	Belongs to the carnitine/choline acetyltransferase family.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-CPT2 antibody - C-terminal (ab71435)

Anti-CPT2 antibody - C-terminal (ab71435) at 1/100 dilution + mouse kidney tissue lysate at 35 µg

Predicted band size: 74 kDa
Observed band size: 74 kDa
Additional bands at: 15 kDa. We are unsure as to the identity of these extra bands.

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