abcam

Product datasheet

Anti-PCK2 antibody - C-terminal ab71745

2 Images

Overview

Product name	Anti-PCK2 antibody - C-terminal
Description	Rabbit polyclonal to PCK2 - C-terminal
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, IHC-P, WB
Species reactivity	**Reacts with:** Human
Positive control	ZR-75-1 cell lysate and human breast carcinoma tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Protein G purified
Purification notes	ab71745 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 **ab71745** in the following tested applications.

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

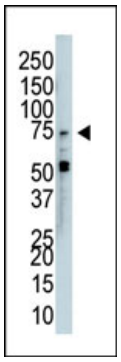
Application	Abreviews	Notes
ELISA		1/1000.
IHC-P		1/50 - 1/100.
WB		1/100 - 1/500. Detects a band of approximately 71 kDa (predicted molecular weight: 71 kDa).

Application	Abreviews	Notes

Target

Function	Catalyzes the conversion of oxaloacetate (OAA) to phosphoenolpyruvate (PEP), the rate-limiting step in the metabolic pathway that produces glucose from lactate and other precursors derived from the citric acid cycle.
Pathway	Carbohydrate biosynthesis; gluconeogenesis.
Involvement in disease	Defects in PCK2 are the cause of mitochondrial phosphoenolpyruvate carboxykinase deficiency (M-PEPCKD) [MIM:261650]. A metabolic disorder resulting from impaired gluconeogenesis. It is a rare disease with less than 10 cases reported in the literature. Clinical characteristics include hypotonia, hepatomegaly, failure to thrive, lactic acidosis and hypoglycemia. Autoposy reveals fatty infiltration of both the liver and kidneys. The disorder is transmitted as an autosomal recessive trait.
Sequence similarities	Belongs to the phosphoenolpyruvate carboxykinase [GTP] family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Mitochondrion.

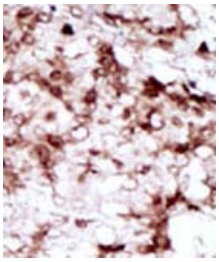
Images



Western blot - PCK2 antibody - C-terminal (ab71745)

Anti-PCK2 antibody - C-terminal (ab71745) at 1/100 dilution + ZR-75-1 cell lysate at 12.5 µg

Predicted band size: 71 kDa
Observed band size: 71 kDa
Additional bands at: 55 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - PCK2 antibody - C-terminal (ab71745)

ab71745 at 1/50 dilution, staining PCK2 in human breast carcinoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue, followed by peroxidase-conjugated secondary antibody and AEC staining.

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