Goat polyclonal anti-PCK1 / PEPCKC

Catalog Number: NB100-2544

Background: This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. A mitochondrial isozyme of the encoded protein also has been characterized.

Alternate Names: anti-PCK1 antibody, anti-phosphoenolpyruvate carboxykinase 1 (soluble) antibody, anti-HGNC:8724 antibody, anti-MGC22652 antibody, anti-PEPCK1 antibody, anti-PEPCKC antibody, anti-PEP carboxykinase antibody, anti-cytosolic phosphoenolpyruvate carboxykinase 1 antibody, anti-phosphoenolpyruvate carboxylase antibody, anti-phosphopyruvate carboxylase antibody

Host: Goat

Immunogen: Synthetic peptide: C-HVNWFRKDKEGK, representing the internal region of the human protein according to NP_002582.2

Isotype: IgG

Species Reactivity: Expected cross-reactivity based upon sequence homology: Human, Mouse, Rat, Dog

Uses: Peptide ELISA: antibody detection limit dilution 1:8,000. Western Blot: Preliminary experiments gave bands at approx 70kDa, 45kDa and 28kDa in Human Adipose, Kidney and Liver lysates after 0.3 µg/ml antibody staining. Please note that currently we cannot find an explanation in the literature for the additional bands we observe given the calculated size of 69.2 kDa according to NP_002582.2. All three detected bands were successfully blocked by incubation with the immunizing peptide (and BLAST results with the immunizing peptide sequence did not identify any other proteins to explain the additional bands). We would appreciate any feedback from people in the field - have any results been reported with other antibodies/lysates? Have any further splice variants/modified forms been reported?

* Other applications have not been tested.

Dilutions: Suggested working dilutions * Western Blot(?)

* Investigator should determine optimal working dilutions.

Packaging: 0.1 mg of antigen affinity purified antisera

Concentration: 0.5 mg/ml

Buffer: Tris-saline containing 0.02% Na azide [pH7.3] with 0.5% BSA

Preservative: Contains sodium azide

Storage: Aliquot and store at -20 degrees C or -80 degrees C. Avoid repeated freeze / thaw cycles

Notes: **Please note, this product is one of a range of Investigative Grade antibodies, made against targets that have limited or no commercial antibodies available to them and for
which there are no data on the expression of the protein in the range of common cell lines and tissues available to us. These antibodies are affinity purified using their peptide immunogen and are known to give low background staining in a western blot. However no additional claims are made for their ability to recognise native protein in any application

Limitations:
This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 6 months from date of receipt.

General References: