Datasheet for ABIN2777601

anti-PCK1 antibody (N-Term)

1 Image

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Overview

Quantity:	100 µL
Target:	PCK1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Dog, Cow, Rabbit, Horse, Guinea Pig
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PCK1
Sequence:	PPQLQNGLNL SAKVVQGSLD SLPQAVREFL ENNAELCQPD HIHICDGSEE
Predicted Reactivity:	Cow: 100%, Dog: 85%, Guinea Pig: 92%, Horse: 85%, Human: 100%, Mouse: 92%, Rabbit: 85%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against PCK1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	PCK1
Alternative Name:	PCK1 (PCK1 Products)

Target Details

Background:	PCK1 is a main control point for the regulation of gluconeogenesis. PCK1, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of PCK1 can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. 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. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: MGC22652, PEPCK-C, PEPCK1, PEPCKC Protein Interaction Partner: UBC, FBXO25, C1R, APP, CUL5, BAG6, TCP1, TCEB1, SKP1, RPS15A, RPS6, RPS3A, RPS3, RPLP0, RPL4, PSMD12, PSMD2, PSMC5, PSMC4, PSMC2, PSMC1, PSMB7, PSMB4, PSMB1, PSMA5, PSMA2, PCK1, LDHA, HSPD1, HSPA1L, DNAJA1, HLA-C, HLA-B, GNAS, GNAI1, GNA12, FASN, EP300, T Protein Size: 622
Molecular Weight:	69 kDa
Gene ID:	5105
NCBI Accession:	NM_002591, NP_002582
UniProt:	P35558
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 622 AA
Restrictions:	For Research Use only

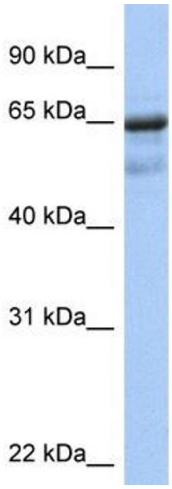
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-PCK1 Antibody Titration: 0.2-1 ug/ml Positive Control: Human Placenta