

Human Phosphoenolpyruvate Carboxykinase [GTP], Mitochondrial (PCK2) ELISA Kit | PCK2 elisa kit

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CATALOG # AAA331460	REACTIVITY Human
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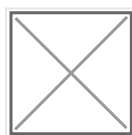
PRODUCT SYNONYMS

Phosphoenolpyruvate Carboxykinase [GTP]; Mitochondrial (PCK2); Human Phosphoenolpyruvate Carboxykinase [GTP]; Mitochondrial (PCK2) ELISA Kit; PCK2; PEPCK; PEPCK-M; PEPCK2; PEP carboxykinase; mitochondrial phosphoenolpyruvate carboxykinase 2; phosphoenolpyruvate carboxylase; phosphopyruvate carboxylase; PCK2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Phosphoenolpyruvate carboxykinase [GTP], mitochondrial (PCK2) ELISA Kit has high sensitivity and excellent specificity for detection of Human PCK2. No significant cross-reactivity or interference between Human PCK2 and analogues was observed.
Sequence Length	441
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Phosphoenolpyruvate carboxykinase [GTP], mitochondrial (PCK2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for PCK2 elisa kit	Description: This Human Phosphoenolpyruvate carboxykinase [GTP], mitochondrial (PCK2) ELISA Kit employs a two-site sandwich ELISA to quantitate PCK2 in samples. An antibody specific for PCK2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any PCK2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PCK2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PCK2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Phosphoenolpyruvate Carboxykinase 2,Mitochondrial is a member of the phosphoenolpyruvate carboxykinase (GTP) family. The protein is a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of GTP. A cytosolic form encoded by a different gene has also been characterized and is the key enzyme of gluconeogenesis in the liver. The encoded protein may serve a similar function, although it is constitutively expressed and not modulated by hormones such as glucagon and insulin that regulate the cytosolic form. Alternatively spliced transcript variants have been described. PCK2 activation mediates an adaptive response to glucose depletion in lung cancer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	614458223
NCBI GeneID	5106
NCBI Accession #	NP_001018083
NCBI GenBank Nucleotide #	NP_001018083.2
UniProt Accession #	Q16822
NCBI Official Full Name	phosphoenolpyruvate carboxykinase
NCBI Official Synonym Full Names	phosphoenolpyruvate carboxykinase 2, mitochondrial
NCBI Official Symbol	PCK2
NCBI Official Synonym Symbols	PEPCK; PEPCK2; PEPCK-M
NCBI Protein Information	phosphoenolpyruvate carboxykinase [GTP], mitochondrial
UniProt Protein Name	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial
UniProt Gene Name	PCK2
UniProt Synonym Gene Names	PEPCK2; PEPCK-M
UniProt Entry Name	PCKGM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/phosphoenolpyruvate-carboxykinase-gtp-mitochondrial-pck2/331460>