

Datasheet for ABIN7599502
anti-PCK1 antibody (AA 1-622)



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Overview

Quantity:	100 µg
Target:	PCK1
Binding Specificity:	AA 1-622
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PCK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-PCK1/PEPC Antibody Picoband®
Immunogen:	E.coli-derived human PCK1/PEPC recombinant protein (Position: M1-M622).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PCK1/PEPC Antibody Picoband® (ABIN7599502). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	PCK1
Alternative Name:	PCK1 (PCK1 Products)
Background:	Synonyms: Tripartite motif-containing protein 6, RING finger protein 89, RING-type E3 ubiquitin transferase TRIM6, TRIM6, RNF89 Tissue Specificity: Isoform 2 is only expressed in skeletal muscle. Isoform 1 is expressed in skeletal muscle, heart, and in lesser extent in liver or pancreas. . 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. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized.
Molecular Weight:	69 kDa
Gene ID:	5105
UniProt:	P35558
Pathways:	Positive Regulation of Peptide Hormone Secretion , Carbohydrate Homeostasis

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat Immunocytochemistry/Immunofluorescence, 4 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Cao, H., van der Veer, E., Ban, M. R., Hanley, A. J. G., Zinman, B., Harris, S. B., Young, T. K., Pickering, J. G., Hegele, R. A. Promoter polymorphism in PCK1 (phosphoenolpyruvate carboxykinase gene) associated with type 2 diabetes mellitus. J. Clin. Endocr. Metab. 89: 898-903, 2004. 2. Pilz, A. J., Willer, E., Povey, S., Abbott, C. M. The genes coding for phosphoenolpyruvate carboxykinase-1 (PCK1) and neuronal nicotinic acetylcholine receptor alpha-4 subunit (CHRNA4) map to human chromosome 20, extending the known region of homology with mouse chromosome 2. Ann. Hum. Genet. 56: 289-293, 1992. 3. Ting, C.-N., Burgess, D. L., Chamberlain, J. S., Keith, T. P., Falls, K., Meisler, M. H. Phosphoenolpyruvate carboxykinase (GTP): characterization of the human PCK1 gene and localization distal to MODY on chromosome 20. Genomics 16: 698-706, 1993.
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Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.