abcam

Product datasheet

Recombinant Human PCK2 protein ab132473

1 Image

Description

Product name	Recombinant Human PCK2 protein
Expression system	Wheat germ
Accession	Q16822
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAALYRPGLRLNWHGLSPLGWPSCRSIQTLRVLSGDLGQ LPTGIRDFVEH SARLCQPEGIHICDGTEAENTATLTLLEQQGLIRKLPKYNN CWLARTDPK DVARVESKTVIVTPSQRDTVPLPPGGARGQLGNWMSPA DFQRAVDERFPG CMQGRTMYVLPFSMGPVGSPLSRIGVQLTDSAYVVASMRI MTRLGTPVLQ ALGDGDFVKCLHSVGQPLTGQGEPVSQWPCNPEKTLIGH VPDQREIISFG SGYGGNSLLGKKCFALRIASRLARDEGWLAEHMLILGITSP AGKKRYVAA AFPSACGKTNLAMMRPALPGWKVECVGDDIAWMRFDSE GRLRAINPENGF FGVAPGTSATTNPNAMATIQSNTIFTNVAETSDGGVYWEGI DQPLPPGVT VTSWLGKPWKPGDKEPCAHPNSRFCAPARQCPIMDPA WEAPEGVPIDAII FGGRRPKGVPLVYEAFNWRHGVFVGSAMRSESTAAAEH KGKIIMHDPFAM RPFFGYNFGHYLEHWLSMEGRKGAQLPRIFHVNWFRRDE AGHFLWPGFGE NARVLDWICRRLEGEDSARETPIGLVPKEGALDLSGLRAI DTTQLFSLPK DFWEQEVRDIRSYLTEQVNQDLPKEVLAELEALERRVHK M
Predicted molecular weight	96 kDa

Amino acids	1 to 640

Specifications

Our **Abpromise guarantee** covers the use of **ab132473** in the following tested applications.

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

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 µg/µL.

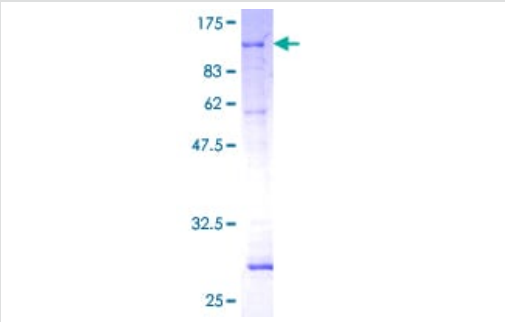
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

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



SDS-PAGE - Recombinant Human PCK2 protein (ab132473)

SDS-PAGE analysis of ab132473 on a 12.5% gel stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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