

Anti-PCK2 Monoclonal Antibody
Catalog # ABO14548**Specification**

Anti-PCK2 Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, FC
Primary Accession	Q16822
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-PCK2 Monoclonal Antibody . Tested in WB, IHC, ICC/IF, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-PCK2 Monoclonal Antibody - Additional Information

Gene ID 5106

Other Names

Phosphoenolpyruvate carboxykinase [GTP], mitochondrial, PEPCK-M, 4.1.1.32, Phosphoenolpyruvate carboxykinase 2, mitochondrial, mtPCK2, PCK2 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=8725), PEPCK2

Application Details

WB 1:500-1:2000
IHC 1:50-1:200
ICC/IF 1:50-1:200
FC 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human PCK2 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.

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-PCK2 Monoclonal Antibody - Protein Information

Name PCK2 ([HGNC:8725](#))

Synonyms PEPCK2

Function

Mitochondrial phosphoenolpyruvate carboxykinase that 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 (PubMed:28955899). Can play an active role in glyceroneogenesis and gluconeogenesis (PubMed:28955899). Also acts as a serine/threonine- protein kinase: phosphorylates and activates ACSL4, thereby promoting ferroptosis (PubMed:38720107).

Cellular Location

Mitochondrion

Tissue Location

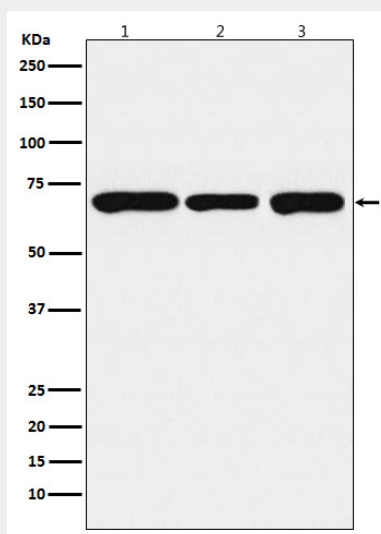
Widely expressed..

Anti-PCK2 Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PCK2 Monoclonal Antibody - Images



Western blot analysis of PCK2 expression in (1) HepG2 cell lysate; (2) Mouse brain lysate; (3) Rat

spleen lysate.