

Anti-PCK2 Monoclonal Antibody

Catalog # ABO14548

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.

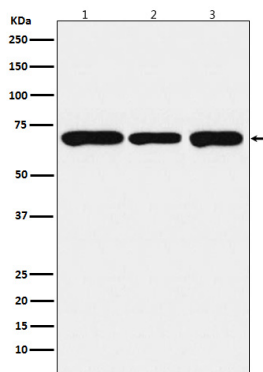
Additional Information

Gene ID	5106
Other Names	Phosphoenolpyruvate carboxykinase [GTP], mitochondrial, PEPCK-M, 4.1.1.32, Phosphoenolpyruvate carboxykinase 2, mitochondrial, mtPCK2, PCK2 (HGNC:8725), PEPCK2
Calculated MW	70699
Application Details	WB 1:500-1:2000 IHC 1:50-1:200 ICC/IF 1:50-1:200 FC 1:50
Source	Eukaryota
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.
Clone Names	Clone: ADFB-16
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.

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..

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.