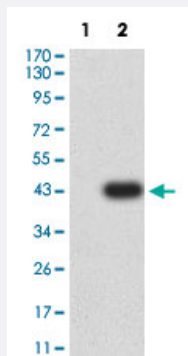


# PCK2 monoclonal antibody, clone 3D3D9

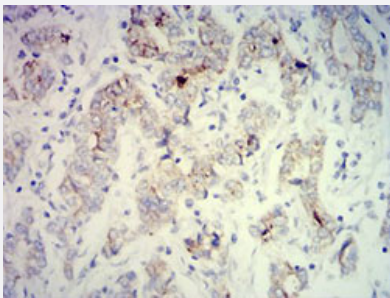
Catalog # MAB21474      Size 100 ug

## Applications



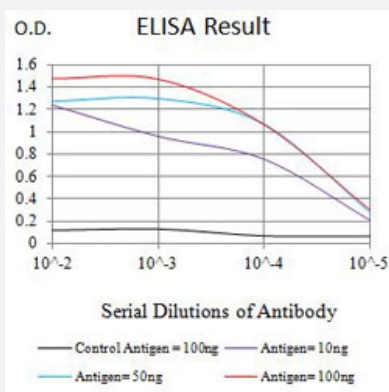
### Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: PCK2-hlgGFc transfected HEK293 cell lysates with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



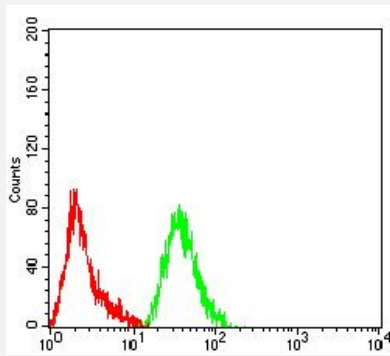
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach carcinoma with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



### Enzyme-linked Immunoabsorbent Assay

ELISA analysis with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).



## Flow Cytometry

Flow cytometric analysis of HeLa cells with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474) (Green). Red: Negative Control.

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against partial recombinant human PCK2.
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 44-175 of human PCK2.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	70.7
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Isotype</b>	IgG1
<b>Recommend Usage</b>	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunocytochemistry (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:1000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.05% sodium azide).
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: HEK293 and Lane 2: PCK2-hlgGfc transfected HEK293 cell lysates with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human stomach carcinoma with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Immunocytochemistry

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474).

- Flow Cytometry

Flow cytometric analysis of HeLa cells with PCK2 monoclonal antibody, clone 3D3D9 (Cat # MAB21474) (Green). Red: Negative Control.

## Gene Info — PCK2

**Entrez GeneID** [5106](#)

**Protein Accession#** [Q16822](#)

**Gene Name** PCK2

**Gene Alias** PEPCK, PEPCK-M, PEPCK2

**Gene Description** phosphoenolpyruvate carboxykinase 2 (mitochondrial)

**Omim ID** [261650](#)

**Gene Ontology** [Hyperlink](#)

**Gene Summary** This gene encodes 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. [provided by RefSeq]

**Other Designations** OTTHUMP00000164700|PEP carboxykinase|mitochondrial phosphoenolpyruvate carboxykinase 2|phosphoenolpyruvate carboxylase|phosphopyruvate carboxylase

## Pathway

- [Adipocytokine signaling pathway](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Metabolic pathways](#)
- [PPAR signaling pathway](#)
- [Pyruvate metabolism](#)

## Disease

- [Diabetes Mellitus](#)