

## PCK2 Rabbit mAb

Catalog No: #49811

Package Size: #49811-1 50ul #49811-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

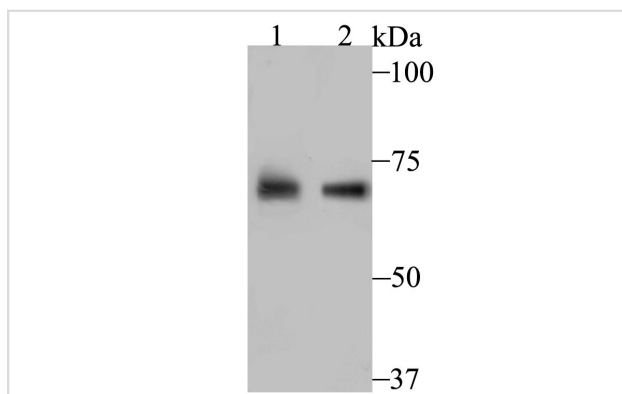
## Description

Product Name	PCK2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JB52-39
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	EC 4.1.1.32 antibody GTP mitochondrial precursor antibody HGNC:8725 antibody mitochondrial antibody Mitochondrial phosphoenolpyruvate carboxykinase 2 antibody OTTHUMP00000164700 antibody PCK2 antibody PCKGM_HUMAN antibody PE antibody PEP carboxykinase antibody PEPCK antibody PEPCK deficiency mitochondrial antibody PEPCK M antibody PEPCK-M antibody PEPCK2 antibody Phosphoenolpyruvate carboxykinase [GTP] antibody Phosphoenolpyruvate carboxykinase 2 (mitochondrial) antibody Phosphoenolpyruvate carboxykinase 2 mitochondrial antibody Phosphoenolpyruvate carboxylase antibody Phosphopyruvate carboxylase antibody
Accession No.	Swiss-Prot#:Q16822
Uniprot	Q16822
GeneID	5106;
Calculated MW	71 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

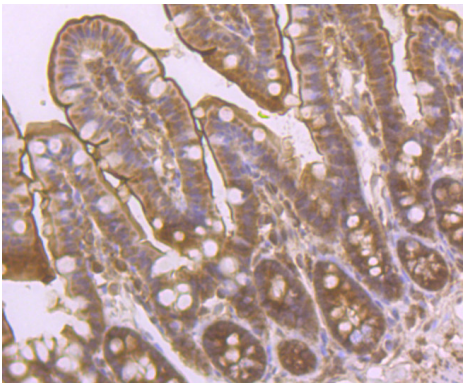
## Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:100FC: 1:50-1:100

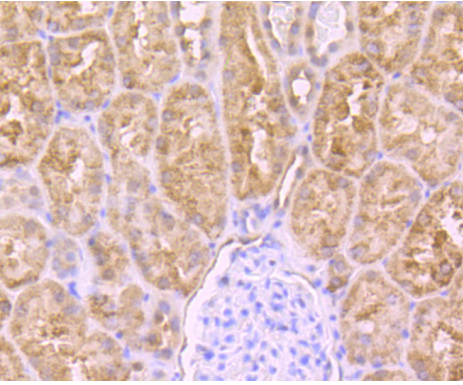
## Images



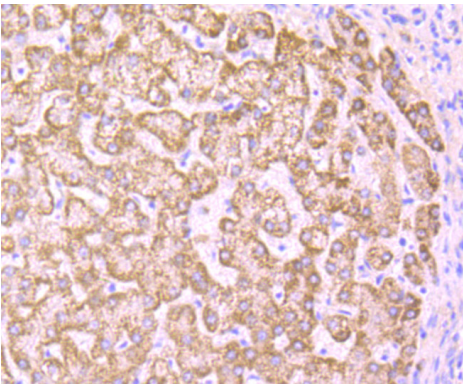
Western blot analysis of PCK2 on human kidney tissue (1) and MCF-7 cell (2) lysate using anti-PCK2 antibody at 1/500 dilution.



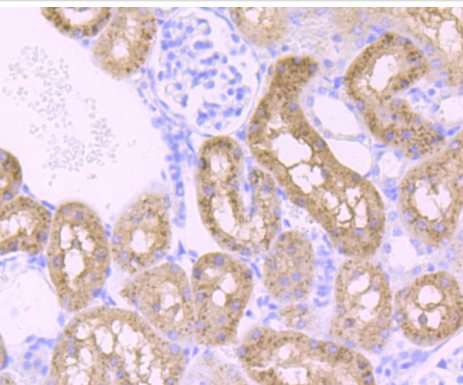
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



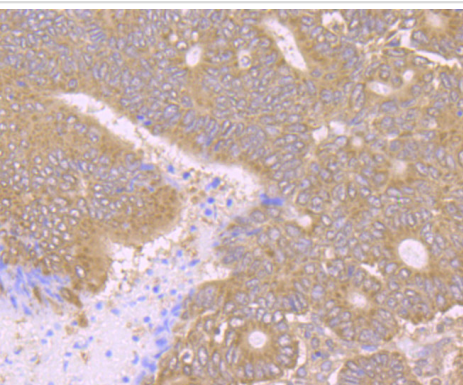
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



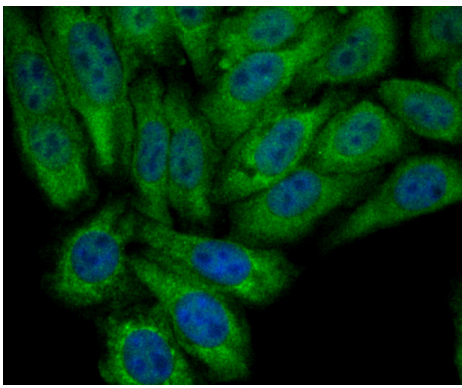
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



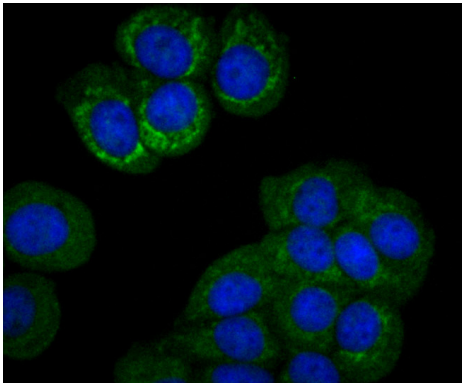
Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



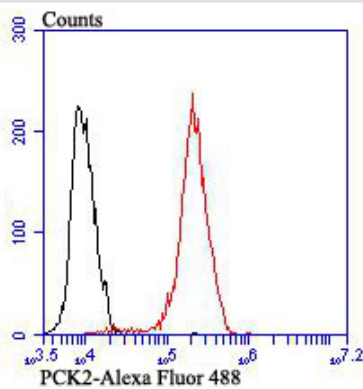
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-PCK2 antibody. Counter stained with hematoxylin.



ICC staining PCK2 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PCK2 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with PCK2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

Normal adjustment to changes in blood glucose levels depends on Insulin signaling as well as enzymes involved in the regulation of gluconeogenesis. Pathological changes to this process are central to the type 2 diabetes phenotype. Phosphoenolpyruvate carboxykinase (PEPCK) plays an important role in this process by stimulating hepatic glucose production. PEPCK expression increases in response to glucagon and glucocorticoids, while Insulin suppresses expression. Modulation of the signals governing PEPCK levels present a potential therapeutic approach to the treatment of Insulin resistance and consequently obesity. The cytosolic form of PEPCK, known as PEPCK-C, and the mitochondrial form, known as PEPCK-M, are encoded by two different nuclear genes in mouse, human and chicken.

## References

Note: This product is for in vitro research use only