

For Research Use Only

# PCK2 Polyclonal antibody

Catalog Number: 14892-1-AP **20 Publications**



## Basic Information

<b>Catalog Number:</b> 14892-1-AP	<b>GenBank Accession Number:</b> BC001454	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 300 µg/ml	<b>GeneID (NCBI):</b> 5106	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:100-1:1000 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q16822	
<b>Isotype:</b> IgG	<b>Full Name:</b> phosphoenolpyruvate carboxykinase 2 (mitochondrial)	
<b>Immunogen Catalog Number:</b> AG6681	<b>Calculated MW:</b> 71 kDa	
	<b>Observed MW:</b> 66-71 kDa	

## Applications

**Tested Applications:**  
IF/ICC, IHC, WB, ELISA

**Cited Applications:**  
WB, IF, IHC

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** mouse brain tissue, rat brain tissue, mouse liver tissue

**IHC:** human breast cancer tissue, mouse kidney tissue, human liver cancer tissue

**IF:** MCF-7 cells, HepG2 cells

## Background Information

PCK2(phosphoenolpyruvate carboxykinase [GTP], mitochondrial) is also named as PEPCK2, PEPCK-M and belongs to the phosphoenolpyruvate carboxykinase [GTP] family. It catalyses the irreversible conversion of oxaloacetate to phosphoenolpyruvate, an important initial step in hepatic gluconeogenesis. Defects in PCK2 are the cause of mitochondrial phosphoenolpyruvate carboxykinase deficiency (M-PEPCKD). It has 2 isoforms produced by alternative splicing with the molecular weight of 71 kDa and 48 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
Shuyue Wang	31526292	Am J Physiol Endocrinol Metab	WB
Yiru Wang	36058294	Exp Cell Res	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

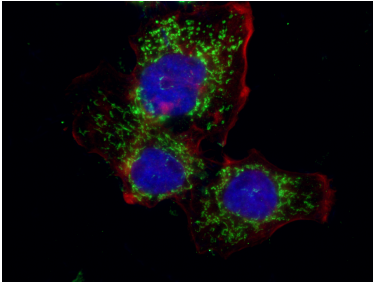
T: 4006900926

E: Proteintech-CN@ptglab.com

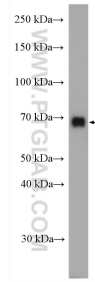
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

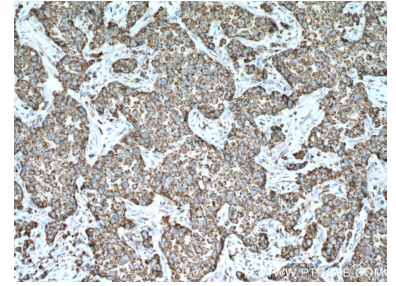
## Selected Validation Data



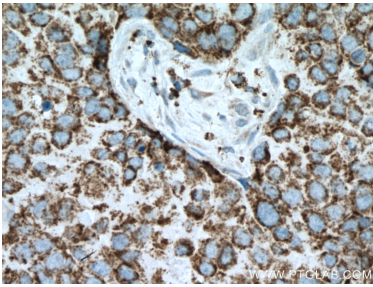
Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 14892-1-AP (PCK2 antibody), at dilution of 1:200 and CoralLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 14892-1-AP (PCK2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14892-1-AP (PCK2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 14892-1-AP (PCK2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).