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# PCK2 Antibody

Store at -20C  
#6924

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 71	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #Q16822	<b>Entrez-Gene Id:</b> 5106
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## Product Usage Information

### Application

Western Blotting  
Immunofluorescence (Immunocytochemistry)

### Dilution

1:1000  
1:100

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

PCK2 Antibody recognizes endogenous levels of total PCK2 protein.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human PCK2 protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

PCK2 (PEPCK2 or PEPCK-M) encodes an isoform of phosphoenolpyruvate carboxykinase (PEPCK) that is found in the mitochondria of renal and hepatic tissues (1). PEPCK is involved in gluconeogenesis, the process of generating glucose from non-carbohydrate substrates such as lactate and glycerol (2). PEPCK catalyzes the reaction whereby oxaloacetate becomes phosphoenolpyruvate, a rate limiting step in the metabolic process (2). The predominant function of PCK2 is to process the lactate that is continually produced by red blood cells in the liver and kidney (1).

## Background References

- Caton, P.W. et al. (2009) *Life Sci* 84, 738-44.
- Fischer, S. et al. (2010) *Biol Reprod* 83, 859-65.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting **IF-IC:** Immunofluorescence (Immunocytochemistry)

## Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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