



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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#8565

PCK2 (D3E11) Rabbit mAb

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

Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 71	Source/Isotype: Rabbit IgG	UniProt ID: #Q16822	Entrez-Gene Id: 5106
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:50 1:100
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	PCK2 (D3E11) Rabbit mAb recognizes endogenous levels of total PCK2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human PCK2 protein.	
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	<ol style="list-style-type: none"> Caton, P.W. et al. (2009) <i>Life Sci</i> 84, 738-44. Fischer, S. et al. (2010) <i>Biol Reprod</i> 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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human Mk: Monkey	
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