

PCK1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PCK1. Catalog # AT3233a

Product Information

Application WB, IF, IP **Primary Accession** P35558 **Other Accession** BC023978 Reactivity Human Host mouse Clonality monoclonal Isotype IgG1 Kappa **Clone Names** 3E5 **Calculated MW** 69195

Additional Information

Gene ID 5105

Other Names Phosphoenolpyruvate carboxykinase, cytosolic [GTP], PEPCK-C, PCK1, PEPCK1

Target/Specificity PCK1 (AAH23978, 1 a.a. ~ 622 a.a) full-length recombinant protein with GST

tag. MW of the GST tag alone is 26 KDa.

Dilution WB~~1:500~1000 IF~~1:50~200 IP~~N/A

Format Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions PCK1 Antibody (monoclonal) (M01) is for research use only and not for use in

diagnostic or therapeutic procedures.

Background

This gene is a main control point for the regulation of gluconeogenesis. The cytosolic enzyme encoded by this gene, along with GTP, catalyzes the formation of phosphoenolpyruvate from oxaloacetate, with the release of carbon dioxide and GDP. The expression of this gene can be regulated by insulin, glucocorticoids, glucagon, cAMP, and diet. Defects in this gene are a cause of cytosolic phosphoenolpyruvate carboxykinase deficiency. A mitochondrial isozyme of the encoded protein also has been characterized.

References

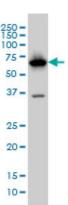
COMMON VARIANTS IN 40 GENES ASSESSED FOR DIABETES INCIDENCE AND RESPONSE TO METFORMIN AND LIFESTYLE INTERVENTIONS IN THE DIABETES PREVENTION PROGRAM. Jablonski KA, et al. Diabetes,

2010 Aug 3. PMID 20682687. Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Physiogenomic analysis of statin-treated patients: domain-specific counter effects within the ACACB gene on low-density lipoprotein cholesterol? Rua?o G, et al. Pharmacogenomics, 2010 Jul. PMID 20602615. Intermediate phenotypes identify divergent pathways to Alzheimer's disease. Shulman JM, et al. PLoS One, 2010 Jun 21. PMID 20574532. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.

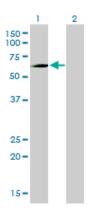
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (94.16 KDa).



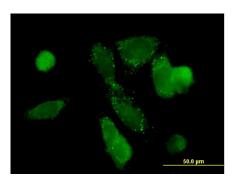
PCK1 monoclonal antibody (M01), clone 3E4 Western Blot analysis of PCK1 expression in HepG2 ((Cat # AT3233a)



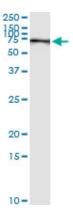
Western Blot analysis of PCK1 expression in transfected 293T cell line by PCK1 monoclonal antibody (M01), clone 3E4.

Lane 1: PCK1 transfected lysate(69.2 KDa).

Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to PCK1 on HepG2 cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of PCK1 transfected lysate using anti-PCK1 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with PCK1 MaxPab rabbit polyclonal antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.