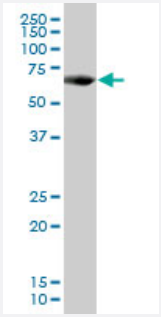
MaxPab®

PCK1 purified MaxPab mouse polyclonal antibody (B01P)

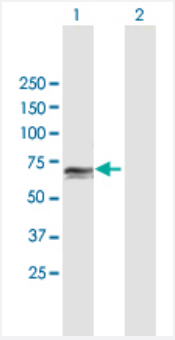
Catalog # H00005105-B01P Size 50 ug

Applications



Western Blot (Tissue lysate)

PCK1 MaxPab polyclonal antibody. Western Blot analysis of PCK1 expression in human kidney.



Western Blot (Transfected lysate)

Western Blot analysis of PCK1 expression in transfected 293T cell line (H00005105-T01) by PCK1 MaxPab polyclonal antibody.

Lane 1: PCK1 transfected lysate(68.42 KDa).
Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human PCK1 protein.
Immunogen	PCK1 (NP_002582.2, 1 a.a. ~ 622 a.a) full-length human protein.

Sequence	MPPQLQNGLNLSAKVVQGSLDSLPQAVREFLENNAELCQPDHIHICDGSEEENGRLLGQMEEEG ILRRLKKYDNCWLALTDPRDVARIESKTVIVTQEQRDTVPIPKTGLSQLGRWMSEEDFEKAFNARF PGCMKGRTMYVIPFSMGPLGSPLSKIGIELTDSPYVVASMRIMTRMGTPVLEALGDGEFVKCLHSV GCPLPLQKPLVNNWPCNPELTLIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWL AEHMLVLGITNPEGEKKYLAAAFPSACGKTNLAMMNPSLPGWKVECVGDDIAWMKFDAQGHLR AINPENGFFGVAPGTSVKTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDEPLASGVTITSWKNKEW SSEDGEPCAHPNSRFCTPASQCPIIDAAWESPEGVPIEGIIFGGRRPAGVPLVYEALSWQHGVFV GAAMRSEATAAAEHKGKIIMHDPFAMRPFFGYNFGKYLAHWLSMAQHPAAKLPKIFHVNWFRKD KEGKFLWPGFGENSRVLEWMFNRIDGKASTKLTPIGYIPKEDALNLKGLGHINMMELFSISKEFWE KEVEDIEKYLEDQVNADLPCEIEREILALKQRISQM
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

  PCK1 MaxPab polyclonal antibody. Western Blot analysis of PCK1 expression in human kidney.

  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of PCK1 expression in transfected 293T cell line (H00005105-T01) by PCK1 MaxPab polyclonal antibody.

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  Protocol Download

Gene Info — PCK1

Entrez GeneID	5105
GeneBank Accession#	NM_002591
Protein Accession#	NP_002582.2
Gene Name	PCK1

Gene Alias	MGC22652, PEPCK-C, PEPCK1, PEPCKC
Gene Description	phosphoenolpyruvate carboxykinase 1 (soluble)
Omim ID	261680
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	OTTHUMP00000031374|PEP carboxykinase|cytosolic phosphoenolpyruvate carboxykinase 1|phosphoenolpyruvate carboxylase|phosphopyruvate carboxylase

Pathway

- Adipocytokine signaling pathway
- Citrate cycle (TCA cycle)
- Glycolysis / Gluconeogenesis
- Insulin signaling pathway
- Metabolic pathways
- PPAR signaling pathway
- Pyruvate metabolism

Disease

- Alzheimer disease
- Atherosclerosis
- Cardiovascular Diseases
- Carotid Artery Diseases
- Cognition
- Diabetes Mellitus

- Drug Toxicity
- Edema
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Hypertension
- Kidney Failure
- Metabolic Syndrome X
- Renal Insufficiency
- Schizophrenia
- Werner syndrome