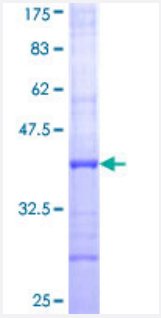
PC (Human) Recombinant Protein (Q01)

Catalog # H00005091-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PC partial ORF (NP_000911, 1 a.a. - 104 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MLKFRTVHGGLRLLGIRRTSTAPAASPNVRRLEYKPIKKVMVANRGEIAIRVFRACTELGIRTVAIYSEQDTGQMHRQKADEAYLIGRGLAPVQAYLHIPDIIK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.18
Interspecies Antigen Sequence	Mouse (93); Rat (94)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PC

Entrez GeneID	5091
GeneBank Accession#	NM_000920
Protein Accession#	NP_000911
Gene Name	PC
Gene Alias	PCB
Gene Description	pyruvate carboxylase
Omim ID	266150 608786
Gene Ontology	Hyperlink
Gene Summary	This gene encodes pyruvate carboxylase, which requires biotin and ATP to catalyse the carboxylation of pyruvate to oxaloacetate. The active enzyme is a homotetramer arranged in a tetrahedron which is located exclusively in the mitochondrial matrix. Pyruvate carboxylase is involved in gluconeogenesis, lipogenesis, insulin secretion and synthesis of the neurotransmitter glutamate. Mutations in this gene have been associated with pyruvate carboxylase deficiency. Alternatively spliced transcript variants with different 5' UTRs, but encoding the same protein, have been found for this gene. [provided by RefSeq
Other Designations	-

Pathway

- Citrate cycle (TCA cycle)
- Metabolic pathways

- Pyruvate metabolism

Disease

- Abortion
- Pregnancy Complications
- Thrombophilia