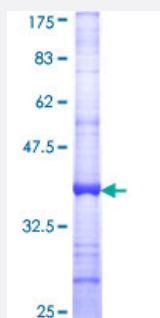


PKM2 (Human) Recombinant Protein (Q01)

Catalog # H00005315-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PKM2 partial ORF (NP_002645, 436 a.a. - 531 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	RSAHQVARYRPRAPIIAVTRNPQTARQAHLRYGIFPVLCCKDPVQEAWAEDVDLRVNFAMNVGKAR GFFKKGDVVMLTGWRPGSGFTNTMRVVPVP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.3
Interspecies Antigen Sequence	Mouse (95); Rat (96)
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 — PKM2

Entrez GeneID [5315](#)

GeneBank Accession# [NM_002654](#)

Protein Accession# [NP_002645](#)

Gene Name PKM2

Gene Alias CTHBP, MGC3932, OIP3, PK3, PKM, TCB, THBP1

Gene Description pyruvate kinase, muscle

Omim ID [179050](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Three alternatively spliced transcript variants encoding two distinct isoforms have been reported. [provided by RefSeq]

Other Designations OPA-interacting protein 3|PK, muscle type|pyruvate kinase M2|thyroid hormone-binding protein, cytosolic

Pathway

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)

- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Purine metabolism](#)
- [Pyruvate metabolism](#)
- [Type II diabetes mellitus](#)

Disease

- [Drug Toxicity](#)
- [Edema](#)
- [Hypercholesterolemia](#)