

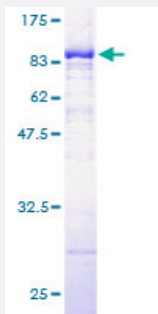
Full-Length

PKM2 (Human) Recombinant Protein (P02)

Catalog # H00005315-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PKM2 full-length ORF (AAH35198, 1 a.a. - 531 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MSKPHSEAGTAFIQQLHAAMADTFLEHMCRLDIDSPPTARNTGICTIGPASRSVETLKEMIKSG
MNVARLNFSGHGTHEYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKGSGTAEVELK
KGATLKITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGGG
LVSKKGVNLPAAVDLPVSEKDIQDLKFGVEQDQDMVFASFIRKASDVHEVRKVLGEKGKNIKII
SKIENHEGVRRFDEILEASDGIMVARGDLGIEIPAEEKVFLAQKMMIGRCNRAGKPVICATQMLESMI
KKPRPTRAEAGSDVANAVLDGADCIMLSGETAKGDYPLEAVRMQHILAREAEAAIYHLQLFEELRRL
APITSDPTEATAVGAVEASFKECCSGAIVLTKSGRSAHQVARYRPRAPIAVTRNPQTARQAHLYRGI
FPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVMLTGWRPGSGFTNTMRVVPVP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.15

Interspecies Antigen Sequence

Mouse (98); 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 — PKM2

Entrez GeneID	5315
GeneBank Accession#	BC035198
Protein Accession#	AAH35198
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](#)