



Human PKM peptide (DAG-P1029)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Several alternatively spliced transcript variants encoding a few distinct isoforms have been reported. [provided by RefSeq, May 2011]
Specificity	Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the pyruvate kinase family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PKM pyruvate kinase, muscle [Homo sapiens (human)]
Official Symbol	PKM

Synonyms	PKM; pyruvate kinase, muscle; PK3; TCB; OIP3; PKM2; CTHBP; THBP1; HEL-S-30; pyruvate kinase PKM; p58; OIP-3; tumor M2-PK; PK, muscle type; pyruvate kinase 2/3; OPA-interacting protein 3; pyruvate kinase isozymes M1/M2; pyruvate kinase muscle isozyme; thyroid hormone-binding protein 1; epididymis secretory protein Li 30; cytosolic thyroid hormone-binding protein; thyroid hormone-binding protein, cytosolic;
Entrez Gene ID	5315
mRNA Refseq	NM_001206796.1
Protein Refseq	NP_001193725.1
UniProt ID	P14618
Chromosome Location	15q22
Pathway	Adenine ribonucleotide biosynthesis, IMP => ADP,ATP, organism-specific biosystem; Adenine ribonucleotide biosynthesis, IMP => ADP,ATP, conserved biosystem; Biosynthesis of amino acids, organism-specific biosystem; Biosynthesis of amino acids, conserved biosystem; Carbon metabolism, organism-specific biosystem; Carbon metabolism, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycolysis, organism-specific biosystem; Glycolysis (Embden-Meyerhof pathway), glucose => pyruvate,
Function	ATP binding; MHC class II protein complex binding; magnesium ion binding; poly(A) RNA binding; potassium ion binding; protein binding; pyruvate kinase activity;