

PKM2 active protein

PKM2, 1-531aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA11792	HOST E Coli	APPLICATIONS SDS-Page
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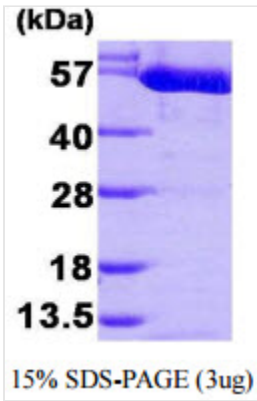
PRODUCT SYNONYMS

PKM2; 1-531aa; Human; His tag; E Coli (Bioactivity Validated); pyruvate kinase muscle isoform M2; CTHBP; THBP1; p58; M2-PK; Tumor M2-PK; PK2; PK3; PKM; pyruvate kinase; muscle isoform M2 OIP3; TCB; OPA interacting protein 3; Cytosolic thyroid hormone binding protein; Pyruvate kinase 2/3; Pyruvate kinase isozymes M1/M2; Pyruvate kinase muscle; Thyroid hormone binding protein cytosolic; Tumour Type M2 Pyruvate Kinase; Tumor Type M2 Pyruvate Kinase; PKM2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MSKPHSEAGT AFIQTQQLHA AMADTFLEHM CRLDIDSPPI TARNTGIIC IGPASRSVET LKEMIKSGMN VARLNFSHGT HEYHAETIKN VRTATESFAS DPILYRPVAV ALDTKGPEIR TGLIKGSGTA EVELKKGATL KITLDNAYME KCDENILWLD YKNICKVVEV GSKIYVDDGL ISLQVKQKGA DFLVTVEVNG GSLGSKKGVN LPGAAVDLPA VSEKDIQDLK FGVEQDVDMV FASFIRKASD VHEVRKVLGE KGKNIKIISK IENHEGVRRF DEILEASDGI MVARGDLGIE IPAEEKVFLAQ KMMIGRCNRA GKPVICATQM LESMIKKPRP TRAEGSDVAN AVLDGADCIM LSGETAKGDY PLEAVRMQHL IAREAEAAIY HLQLFEELRR LAPITSDPTE ATAVGAVEAS FKCCSGAIIV LTKSGRSAHQ VARYRPRAPI IAVTRNPQTA RQAHLYRGIF PVLCKDPVQE AWAEDVDLRV NFAMNVGKAR GFFKKGDVVI VLTGWRPGSG FTNTMRVVPV P
Sequence Length	531
Applicable Applications for PKM2 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity: > 25,000 pmol/min/ug. One unit will convert 1.0 pmole of phospho (enol)pyruvate to pyruvate per minute at pH 7.5 at 37C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PKM2 active protein	PKM2 is an isoenzyme of the glycolytic enzyme pyruvate kinase. This protein catalyzes the production of pyruvate and ATP from phosphoenolpyruvate. PKM2 interacting with Opa proteins, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, is required for bacterial pathogenesis. It is specifically expressed at high levels in tumor cells, and can be measured in plasma of patients with advanced breast cancer. Recombinant human PKM2, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for PKM2 active protein	Cancer
References	Zwerschke W., et al. (2009). Exp Cell Res. 315 (16):2765-74; Mazurek S., et al. (2007). Ernst Schering Found Symp Proc. (4):99-124.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	33286418
NCBI GeneID	5315
NCBI Accession #	NP_002645
NCBI GenBank Nucleotide #	NM_002654.5
UniProt Accession #	P14618; P14786; Q53GK4; Q96E76; Q9BWB5; Q9UCV6; Q9UPF2; A6NFK3; B2R5N8; B3KRY0; B4DFX8; B4DUU6
Molecular Weight	60.1 kDa (551aa)
NCBI Official Full Name	pyruvate kinase PKM isoform a
NCBI Official Synonym Full Names	pyruvate kinase M1/2
NCBI Official Symbol	PKM
NCBI Official Synonym Symbols	PK3; TCB; OIP3; PKM2; CTHBP; THBP1; HEL-S-30
NCBI Protein Information	pyruvate kinase PKM
UniProt Protein Name	Pyruvate kinase PKM
UniProt Gene Name	PKM
UniProt Synonym Gene Names	OIP3; PK2; PK3; PKM2; CTHBP; OIP-3; THBP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/pkm2/11792>