

## Recombinant Mouse Pkm Protein, Myc/DDK-tagged

Cat. No. Pkm-4888M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Purified recombinant protein of mouse full-length pyruvate kinase, muscle (Pkm), with C-terminal MYC/DDK tag, expressed in HEK293T cells.

**Species** Mouse

**Source** HEK293

**Description** Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival. In addition to its role in glycolysis, also regulates transcription. Stimulates POU5F1-mediated transcriptional activation. Promotes in a STAT1-dependent manner, the expression of the immune checkpoint protein CD274 in ARNTL/BMAL1-deficient macrophages. Also acts as a translation regulator for a subset of mRNAs, independently of its pyruvate kinase activity: associates with subpools of endoplasmic reticulum-associated ribosomes, binds directly to the mRNAs translated at the endoplasmic reticulum and promotes translation of these endoplasmic reticulum-destined mRNAs. Plays a general role in caspase independent cell death of tumor cells.

**Molecular Mass** 57.8 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pkm pyruvate kinase, muscle [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Pkm</a>
<b>Synonyms</b>	Pkm; pyruvate kinase, muscle; Pk; Pk-; Pk3; Pk-2; Pk-3; Pkm2; AA414905; AL024370; AL024424; pyruvate kinase PKM; pyruvate kinase 3; pyruvate kinase isozymes M1/M2; pyruvate kinase muscle isozyme; EC 2.7.1.40
<b>Gene ID</b>	<a href="#">18746</a>
<b>mRNA Refseq</b>	<a href="#">NM_011099</a>
<b>Protein Refseq</b>	<a href="#">NP_035229</a>
<b>UniProt ID</b>	<a href="#">P52480</a>

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