

Product datasheet for **TP506918**

Pdk1 (NM_172665) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206918 protein sequence Red =Cloning site Green =Tags(s)

MRLARLLRGGTSVRPLCAVPCASRSLASASGSGPASELGVPGQVDFYARFSPSPLSMKQFLDFGSVNACE
KTSFMFLRQELPVRLANIMKEISLLPDNLLRTPSVQLVQSWYIQSLQELLDKDKSAEDAKTIYEFTDTV
IRIRNRHNDVIPTMAQGVTEYKESFGVDPVTSQNVQYFLDRFYMSRISIRMLLNQHSLFGGKGPSHRK
HIGSINPNCDVVEVIKDGYNARRLCDLYVNSPELELEELNAKSPGQTIQVYVPSHLYHMFELFKNA
MRATMEHHADKGVYPPIQVHVTLGEEDLTVKMSDRGGGVPLRKIDRLFNYMYSTAPRPRVETSRAVPLAG
FGYGLPISRLYAQYFQGDLKLYSLEGYGTDAVIYIKALSTESVERLPVYNKAAWKHYKANHEADWCVPS
REPKDMTFRSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	48.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_766253
Locus ID:	228026



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UniProt ID: [Q8BFP9](#)

RefSeq Size: 5202

Cytogenetics: 2 C3

RefSeq ORF: 1299

Synonyms: B830012B01; D530020C15Rik

Summary: Kinase that plays a key role in regulation of glucose and fatty acid metabolism and homeostasis via phosphorylation of the pyruvate dehydrogenase subunits PDHA1 and PDHA2. This inhibits pyruvate dehydrogenase activity, and thereby regulates metabolite flux through the tricarboxylic acid cycle, down-regulates aerobic respiration and inhibits the formation of acetyl-coenzyme A from pyruvate. Plays an important role in cellular responses to hypoxia and is important for cell proliferation under hypoxia. Protects cells against apoptosis in response to hypoxia and oxidative stress (By similarity).[UniProtKB/Swiss-Prot Function]