

## Recombinant Human PDZ Binding Kinase, His-tagged

Cat. No. PBK-1931H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PBK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Description</b>	PBK is a serine/threonine kinase related to the dual specific mitogen-activated protein kinase (MAPKK) family. PBK is abundant in placenta and absent from adult brain tissue. A PDZ domain in the tumor suppressor protein Dlg can coordinate with the T/SXV motif of PBK. This protein may be involved in the activation of lymphoid cells and support testicular functions, with a suggested role in the process of spermatogenesis.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
<b>Molecular Weight</b>	38.6 kDa(346aa) confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS-PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Sequences of amino acids</b>	MGSSHHHHHSSGLVPRGSH MGSHEGISEN FKTPSKLSEK KKSVCSTPT INIPA SPFMQ KLGFGTGVNVYLMKRSPRGL SHSPWAVKKI NPICNDHYRS VYQKRLMDE A KILKSLHHPNIVGYRAFTEA NDGSLCLAME YGGEKSLNDL IEERYKASQD PFPA AIIKV ALNMARGLY LHQEKLLHGDIKSSNVVIK GDFETIKICD VGVSLPLDEN M

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TVTDPEACY IGTEPWKPKE AVEENGVITD KADIFAFGLTLWEMMTLSIPHINLSNDD  
 DDEDKTFDESDF DDEAYYAALG TRPPINMEEL DESYQKVIEL FSVCTNEDPK DRP  
 SAAHIVE ALETDV

**Storage**

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoidrepeated freezing and thawing cycles.

**GENE INFORMATION**

**Gene Name** PBK PDZ binding kinase [ Homosapiens ]

**Official Symbol** PBK

**Synonyms**

PBK; PDZ binding kinase; SPK;CT84; TOPK; Nori-3; FLJ14385; PDZ-binding kinase;  
 cancer/testis antigen 84;MAPKK-like protein kinase; serine/threonine protein kinase;  
 T-LAKcell-originated protein kinase; spermatogenesis-related protein kinase;  
 EC2.7.12.2; Lymphokine-activated killer T-cell-originated protein kinase

**Gene ID** 55872

**mRNA Refseq** NM\_018492

**Protein Refseq** NP\_060962

**MIM** 611210

**UniProt ID** Q96KB5

**Chromosome Location** 8p21.2

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**Function**

ATP binding;nucleotide binding; protein binding; protein serine/threonine kinase activity

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