Recombinant Human PDZ Binding Kinase, GST-tagged, Active

Cat. No. PBK-447H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human TOPK was expressed by baculovirus in*Sf9*insect cells using an N-terminal GST tag. MW = 68 kDa.
Species	Human
Source	Sf9 Cells
Description	TOPK is a MAPK kinase that phosphorylates p38 MAPK and is activated in a cell-cycle-dependent manner in neuronal progenitor cells in vitro. Expression of TOPK is detected in male germ line progenitor cells, activated T-cells, and a variety of lymphomas and leukemias. In vitro studies have shown that activated TOPK phosphorylated p38MAPK but not JNK or ERK. TOPK activation requires phosphorylation by both the M-phase CDK1/CyclinB kinase complex and another unknown kinase, possibly RafC or RafA. TOPK may play an important role in linking extracellular signals to an intracellular state, possibly allowing extracellular influence on the cell-cycle-related processes of proliferation or differentiation.
Sequence	Full-length.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70℃. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PBK PDZ binding kinase [Homo sapiens]
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-LAK cell-originated protein kinase; spermatogenesis-related protein kinase; EC 2.7.12.2; 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
Function	ATP binding; nucleotide binding; protein binding; protein serine/threonine kinase activity; transferase activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA