

PBK

Recombinant Human PBK/TOPK Active GST-His

Catalog No.	CRP034	Quantity:	50 µg
Alternate Names:	FLJ14385, Nori-3, SPK, TOPK, MAPKK-like protein kinase, PDZ-binding kinase, T-LAK cell-originated protein kinase, serine/threonine protein kinase, spermatogenesis-related protein kinase		
Description:	Human PBK. Amino acids M ₁ -V ₃₂₂ (as in GenBank entry NM_018492)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.256 µg/µl		
Gene ID:	55872		
Protein Accession No:	NM_018492		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 67,521 Da		
Formulation:	50 mM Tris-HCl + pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	PBK was confirmed as PBK by specific Western Blotting using anti PBK antibody		
Specific Activity:	4 pmol/µg×min		

Method for determination of K_m value and specific activity:

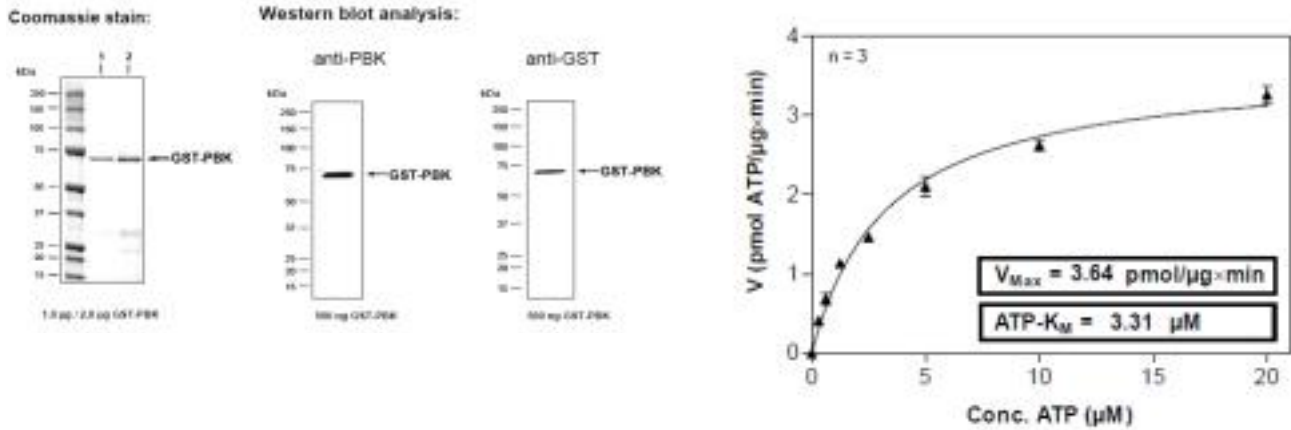
- Assay conditions:
 - 60 mM HEPES-NaOH, pH 7.5
 - 3 mM MgCl₂
 - 3 mM MnCl₂
 - 3 µM Na-orthovanadate
 - 1.2 mM DTT
 - 2.5 µg / 50 µl PEG_{20,000}
 - ATP (variable)
 - Substrate: Histone H1, 1 µg / 50 µl
 - Recombinant PBK: 200 ng / 50 µl
- Filter binding assay
 - MAFC membrane (Millipore)



Storage & Stability:

Store in working aliquots at -80°C . **Avoid repeated freeze-thaw cycles.**

Determination of K_m value for ATP:



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

