Recombinant human PBK protein

Catalog Number: ATGP1437

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-322aa

UniProt No.
Q96KB5

NCBI Accession No.
NP_060962

Alternative Names
Lymphokine-activated killer T-cell-originated protein kinase, CT84, Nori-3, SPK, TOPK

PRODUCT SPECIFICATION

Molecular Weight
38.6 kDa (346aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Lymphokine-activated killer T-cell-originated protein kinase, also known as 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. Recombinant human PBK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

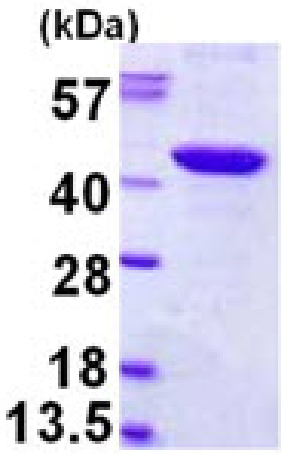
MGSSHHHHHH SSGLVPRGSH MGSHMEGISN FKTPSKLSEK KKSVLCSTPT INIPASPFMQ KLGFGTGVNV YLMKRSPRGL SHSPWAVKKI NPICNDHYRS VYQKRLMDEA KILKSLHHPN IVGYRAFTEA NDGSLCLAME YGGEKSLNDL IEERYKASQD PFPAAIILKV ALNMARGLKY LHQEKKLLHG DIKSSNVVIK GDFETIKICD VGVSLPLDEN MTVTDPEACY IGTEPWKPKE AVEENGVITD KADIFAFGLT LWEMMTLSIP HINLSNDDDD EDKTFDESDF DDEAYYAALG TRPPINMEEL DESYQKVIEL FSVCTNEDPK DRPSAAHIVE ALETDV

General References

Abe Y., et al. (2000) J Biol Chem. 275:21525-21531.
Dougherty J D., et al. (2005) J Neurosci. 25:10773-10785.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.