

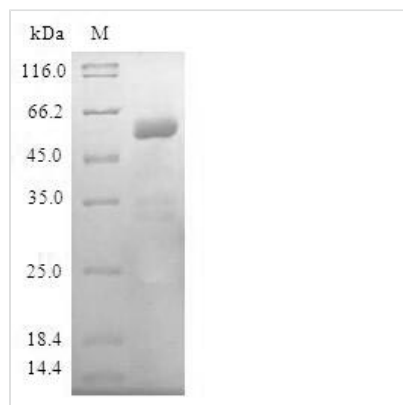


Recombinant Human Lymphokine-activated killer T-cell-originated protein kinase (PBK)

Product Code	CSB-EP822241HU
Relevance	Phosphorylates MAP kinase p38. Seems to be active only in mitosis. May also play a role in the activation of lymphoid cells. When phosphorylated, forms a complex with TP53, leading to TP53 destabilization and attenuation of G2/M checkpoint during doxorubicin-induced DNA damage.
Abbreviation	PBK
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q96KB5
Alias	Cancer/testis antigen 84
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MEGISNFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPR GLSHSPWAVKKINPICNDHYRSVYQKRLMDEAKILKSLHHPNIVGYRAFTEAND GSLCLAMEYGG EKSLNDLIEERYKASQDPFPAAILKVALNMARGLKYLHQEKK LLHGDIKSSNVVIKGFETIKICDVGVSPLDENMTVTDPEACYIGTEPWKPKEA VEENGVITDKADIFAFGLTLWEMMTLSIPHINLSNDDDDDEDKTFDESDFDDEAY YAALGTRPPINMEELDESYQKVIELFSVCTNEDPKDRPSAAHIVEALETDV
Lead Time	3-7 business days
Research Area	Cell Biology
Source	E.coli
Gene Names	PBK
Protein Names	Recommended name: Lymphokine-activated killer T-cell-originated protein kinase EC= 2.7.12.2 Alternative name(s): Cancer/testis antigen 84 Short name= CT84 MAPKK-like protein kinase Nori-3 PDZ-binding kinase Spermatoge
Expression Region	1-322aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	63.1kDa
Protein Description	Full Length



Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Constructing a plasmid that codes for the Human PBK protein (1-322aa) is the initial step to yield the recombinant Human PBK protein. The plasmid is then transferred into e.coli cells. Positive e.coli cells are selected and cultured for the protein expression. A N-terminal GST tag is fused to the protein. The affinity purification is used to purify the protein, and SDS-PAGE analysis is carried out to verify the presence and assess the purity of the protein. The protein possesses a purity exceeding 90%.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.