

Product datasheet

Recombinant Human PNK/PNKP protein ab131925

[1 Image](#)

Description

Product name Recombinant Human PNK/PNKP protein

Expression system Wheat germ

Accession **Q96T60**

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence

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MGEVEAPGRLWLESPPGGAPPFLPSDGQALVLGRGPLT
QVTDRKCSRTQ
VELVADPETRTVAVKQLGVNPSTTGTQELKPGLEGLGV
GDTLYLVNGLH
PLTLRWEETRTPESQPDTPPGTPLVSQDEKRDAELPKKR
MRKSNPGWENL
EKLLVFTAAGVKPQGKVAGFDLDGTLITRSGKVFP TGPS
DWRILYPEIP
RKLRELEAEGYKLVIFTNQMSIGRGKLPAAEFKAKVEAVV
EKLGVPFQVL
VATHAGLYRKPVTGMWDHLQEQANDGTPISIGDSIFVGDA
AGRPANWAPG
RKKKDFSCADRLFALNLGLPFATPEEFFLKWPAAGFELP
AFDPRTVSRSG
PLCLPESRALLSASPEVVAVGFPGAGKSTFLKKHLVSA
GYVHVNRTLGL
SWQRCVTTTETALKQGKRVAIDNTNPDAASRARYVQCAR
AAGVPCRCFLF
TATLEQARHNNRFREMTDSSHIPVSDMVMYGYRKQFEAP
TLAEGFSAILE IPFRLWVEPRLGRLYCQFSEG
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Predicted molecular weight 84 kDa including tags

Amino acids 1 to 521

Specifications

Our **Abpromise guarantee** covers the use of **ab131925** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	This product was previously labelled as PNK.

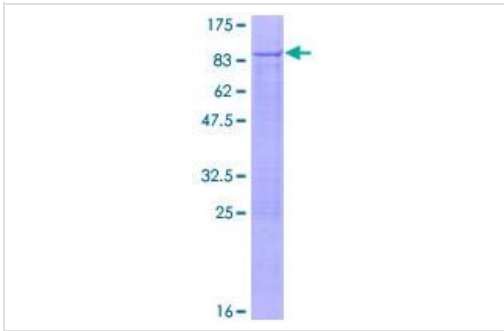
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl Glutathione is reduced.
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General Info

Function	Catalyzes the phosphorylation of DNA at 5'-hydroxyl termini and can dephosphorylate its 3'-phosphate termini. Plays an important function in DNA repair following ionizing radiation or oxidative damage.
Tissue specificity	Expressed in many tissues with highest expression in spleen and testis, and lowest expression in small intestine (PubMed:10446192). Expressed in higher amount in pancreas, heart and kidney and at lower levels in brain, lung and liver (PubMed:10446193).
Involvement in disease	Defects in PNKP are the cause of microcephaly seizures and development delay (MCSZ) [MIM:613402]. It is characterized by microcephaly, infantile-onset seizures, severe intellectual disability and delayed motor milestones with absent speech or only achieving a few words. Most patients also have behavioral problems with hyperactivity. Microcephaly is progressive and without neuronal migration or structural abnormalities, consistent with primary microcephaly.
Sequence similarities	In the N-terminal section; belongs to the DNA 3' phosphatase family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus.

Images



12.5% SDS-PAGE stained with Coomassie Blue showing ab131925.

SDS-PAGE - Recombinant Human PNK/PNKP protein (ab131925)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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