

Recombinant human XAB1 protein

Catalog Number: ATGP1601

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-374aa

UniProt No.

Q9HCN4

NCBI Accession No.

NP_009197

Alternative Names

XPA binding protein 1 GTPase, XPA binding protein 1, GTPase, GPN1, ATPBD1A, MBDIN, NTPBP

PRODUCT SPECIFICATION

Molecular Weight

44.3 kDa (398aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

Purity

> 90% 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

XAB1, as known as GPN1, belongs to the GPN-loop GTPase family. Small GTPases share a biochemical mechanism and act as binary molecular switches. One important function of small GTPases in the cell is nucleocytoplasmic transport of both proteins and RNA. This protein may play a role in DNA repair and may function in activation of transcription. And it forms an interface between the RNA polymerase II enzyme and chaperone/scaffolding protein, suggesting that it is required to connect RNA polymerase II to regulators of protein complex formation. Recombinant human XAB1 protein, fused to His-tag at N-terminus, was expressed in

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E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMAASAA AAELQASGGP RHPVCLLVLG MAGSGKTFV QRLTGHHLHAQ
GTPPYVINLD PAVHEVPFPA NIDIRDVKY KEVMKQYGLG PNGGIVTSLN LFATRFDQVM KFIEKAQNMS KYVLIDTPGQ
IEVFTWSASG TIITEALASS FPTVVIYVMD TSRSTNPVTF MSNMLYACSI LYKTKLPFIV VMNKTDIIDH SFAVEWMQDF
EAFQDALNQE TTYVSNLTRS MSLVLDEFYS SLRVVGVS AV LGTGLDEL FV QVTSAAEEYE REYRPEYERL KKSLANAESQ
QREQLERLR KDMGSVALDA GTAKDSLSPV LHPSDLILTR GTLDEEDEEA DSDTDDIDHR VTEESHEEPA FQNFMQESMA
QYWKRNNK

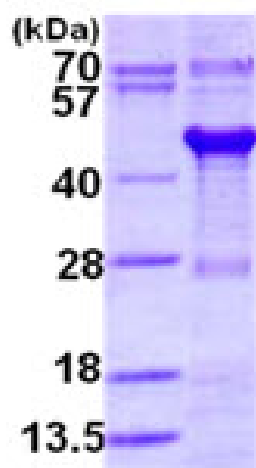
General References

Carre C, et al. (2011) Mol Cell Biol. 31(19):3953-62.

Forget D, et al. (2010) Mol Cell Proteomics. 9(12):2827-39.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)