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# Recombinant human XAB1 protein

Catalog Number: ATGP1601

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-374aa

#### UniProt No.

O9HCN4

#### **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**

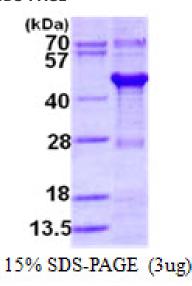
MGSSHHHHHH SSGLVPRGSH MGSHMAASAA AAELQASGGP RHPVCLLVLG MAGSGKTTFV QRLTGHLHAQ GTPPYVINLD PAVHEVPFPA NIDIRDTVKY KEVMKQYGLG PNGGIVTSLN LFATRFDQVM KFIEKAQNMS KYVLIDTPGQ IEVFTWSASG TIITEALASS FPTVVIYVMD TSRSTNPVTF MSNMLYACSI LYKTKLPFIV VMNKTDIIDH SFAVEWMQDF EAFQDALNQE TTYVSNLTRS MSLVLDEFYS SLRVVGVSAV LGTGLDELFV QVTSAAEEYE REYRPEYERL KKSLANAESQ QQREQLERLR KDMGSVALDA GTAKDSLSPV LHPSDLILTR GTLDEEDEEA DSDTDDIDHR VTEESHEEPA FQNFMQESMA OYWKRNNK

#### **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.

