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AR50425PU-S Human XAB1 (1-374, His-tag) - Purified

Alternate names: ATPBD1A, GPN1, GTPase, MBDIN, NTPBP, XPA binding protein 1

Quantity: 0.1 mg

Concentration: 1mg/ml (determined by Bradford assay)

Background: 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.

Uniprot ID: Q53RZ9

NCBI: NP_009197.1

GeneID: 11321

Species: Human

Source: E. coli

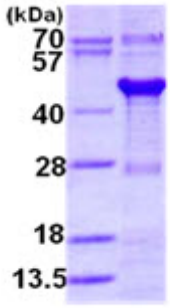
Format:
State: Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl

Description: Recombinant human XAB1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA 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 QYWKRNNK
Molecular weight: 44.3 kDa (398aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Carre C, et al. (2011) Mol Cell Biol. 31(19):3953-62.Forget D, et al. (2010) Mol Cell Proteomics. 9(12):2827-39.

Pictures:



15% SDS-PAGE (3ug)