

**XAB1, 1-374aa, Human, His tag, E.coli**

**Cat.NO.: TP04508**

3th Edition

**Synonyms:**XPA binding protein 1, GTPase, GPN1, ATPBD1A, MBDIN, NTPBP

**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 E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20 mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl

**Molecular Weight:**44.3kDa (398aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMAASAAAELQASGGPRHPVCLLVLMAGSGKTTFFVQRLTGHLHAQGTP  
PYVINLDPVHEVPFPANIDIRDTVKYKEVMKQYGLGPNGGIVTSLNLFATRFDQVMKFIEKAQNMSKYVLIDTPGQI  
EVFTWSASGTIITEALASSFPTVVIYVMDTSRSTNPVTFMSNMLYACSIYKTKLPFIVVMNKTDIIDHSFAVEWMQDF  
EAFQDALNQETTYVSNLTRSMLVLDEFYSSLRVVGVS AVLGTGLDEL FVQVLSAAEEYEREYRPEYERLKKSLAN  
AESQQQREQLERLRKDMGSVALDAGTAKDSLSPVLHPSDLILTRGTLDEEDEEADSDDIDHRVTEESHEEPAFQ  
NFMQESMAQYWKRNNK

**Purity:**> 95% by HPLC

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

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.