

# Recombinant human PABPN1 protein

Catalog Number: ATGP2500

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

119-306aa

### UniProt No.

Q86U42

### NCBI Accession No.

NP\_004634

### Alternative Names

Polyadenylate-binding protein 2, OPMD, PAB2, PABII, PABP-2, PABP2

## PRODUCT SPECIFICATION

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### Molecular Weight

23.8 kDa (211aa)

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### 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

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### Description

PABPN1 is an abundant nuclear protein that binds with high affinity to nascent poly (A) tails. The protein is required for progressive and efficient polymerization of poly (A) tails at the 3' ends of eukaryotic transcripts and controls the size of the poly (A) tail to about 250 nt. At steady-state, this protein is localized in the nucleus whereas a different poly (A) binding protein is localized in the cytoplasm. This gene contains a GCG trinucleotide repeat at the 5' end of the coding region, and expansion of this repeat from the normal 6 copies to 8-13 copies leads to autosomal dominant oculopharyngeal muscular dystrophy (OPMD) disease. Related pseudogenes have

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been identified on chromosomes 19 and X. Read-through transcription also exists between this gene and the neighboring upstream BCL2-like 2 (BCL2L2) gene. Recombinant human PABPN1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

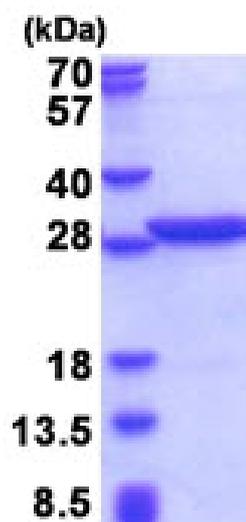
MGSSHHHHHHH SSGLVPRGSH MGSLEAIKAR VREMEEEAEK LKELQNEVEK QMNMSPPPGN AGPVIMSIEE KMEADARSIY  
VGNVDYGATA EELEAHFHGC GSVNRVTILC DKFSGHPKGF AYIEFSDKES VRTSLALDES LFRGRQIKVI PKRTNRPGIS  
TTDRGFPRAR YRARTTNYS SRSRFYSGFN SRPRGRVYRG RARATSWYSP Y

## General References

Fan X., et al. (2001) Hum. Mol. Genet. 10:2341-2351.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)