

AR51320PU-N

Human PABPN1 (119-306, His-tag) - Purified

Alternate names:

Nuclear poly(A)-binding protein 1, PAB2, PABP-2, PABP2, Poly(A)-binding protein 2, Polyadenylate-binding nuclear protein 1, Polyadenylate-binding protein 2

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 been identified on chromosomes 19 and X. Read-through transcription also exists between this gene and the neighboring upstream BCL2-like 2 (BCL2L2) gene.

Uniprot ID:

[Q86U42](#)

NCBI:

[NP_004634](#)

GeneID:

[8106](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

Description:

Recombinant human PABPN1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSLEAIKAR VREMEEEAEK LKELQNEVEK QNMMSPPPGN
AGPVIMSIIE KMEADARSIY VGNVDYGATA EELEAHFHGC GSVNRVTILC DKFSGHPKGF
AYIEFSDKES VRTSLALDES LFRGRQIKVI PKRTNRPGIS TDRGFPRAR YRARTTNYNS
SRSRFYSGFN SRPRGRVYRG RARATSWYSP Y

Molecular weight: 23.8 kDa (211aa)

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:

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

Pictures:

