Product information

PABPN1, 119-306aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP2500

Full name: Polyadenylate-binding protein 2

NCBI Accession No.: NP_004634

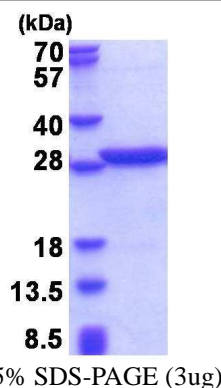**Synonym:** OPMD, PAB2, PABII, PABP-2, PABP2

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 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*.

Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol **Molecular Weight:** 23.8 kDa (211aa) **Purity:** > 95% by SDS - PAGE **Concentration:** 1 mg/ml (determined by Bradford assay)	 15% SDS-PAGE (3ug)

Sequences of amino acids:

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

General references:

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

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.