Recombinant Human poly(A) binding protein, nuclear 1, His-tagged

Cat. No. PABPN1-403H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PABPN1, 119-306aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	119-306 a.a.
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 Mass	23.8 kDa (211aa)

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLEAIKAR VREMEEEAEK LKELQNEVEK QMNMSPPPGN AGPVIMSIEE KMEADARSIY VGNVDYGATA EELEAHFHGC GSVNRVTILC DKFSGHPKGF AYIEFSDKES VRTSLALDES LFRGRQIKVI PKRTNRPGIS TTDRGFPRAR YRARTTNYNS SRSRFYSGFN SRPRGRVYRG RARATSWYSP Y
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	PABPN1?poly(A) binding protein, nuclear 1 [?Homo sapiens?(human)]
Official Symbol	PABPN1
Synonyms	PABPN1; OPMD; PAB2; PABII; PABP2; PABP-2; poly(A) binding protein, nuclear 1; polyadenylate-binding protein 2; poly(A) binding protein 2; poly(A) binding protein II
Gene ID	8106
mRNA Refseq	NM_004643
Protein Refseq	NP_004634
MIM	602279
UniProt ID	Q86U42

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Chromosome Location	14q11.2
Pathway	Cleavage of Growing Transcript in the Termination Region; Host Interactions with Influenza Factors; Inhibition of Host mRNA Processing and RNA Silencing
Function	RNA binding; nucleotide binding; poly(A) RNA binding

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