

## Recombinant Human PABPN1 Protein, His-Tagged

**Cat. No.** PABPN1-01H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | Recombinant Human PABPN1 Protein, His-tagged was expressed in HEK293 cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | <p>This gene encodes 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.</p> |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 28kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | <p>AAAAAAAAAAAAAAAAAAGAAGGRGSGPGRRRHLVPGAGGEAGEGAPGGAGDYGN<br/> GLESEELEPEELLLEPEPEPEPEEEEEPPRPRAPPGAPGPGPGSGAPGSQEEEEEPGL<br/> VEGDPGDGAIEDPELEAIKARVREMEEEAEKCLKELQNEVEKQNMNSPPPGNAGPVI<br/> MSIEEKMEADARSIYVGNVDYGATAEELEAHFHGCGSVNRVTILCDKFSGHPKGFAY</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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IEFSDKESVRTSLALDESLFRGRQIKVIPKRTNRPGISTHHHHHH

**Endotoxin** < 1EU/ug

**Purity** 70% by SDS-PAGE

**Storage** Store it under sterile conditions at -20 to -80 °C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

**Concentration** 0.45 mg/mL by BCA method

**Storage Buffer** PBS, pH 7.4

## GENE INFORMATION

**Gene Name** PABPN1 poly(A) binding protein nuclear 1 [ Homo sapiens (human) ]

**Official Symbol** PABPN1

**Synonyms** OPMD; PAB2; PABII; PABP2; PABP-2

**Gene ID** 8106

**mRNA Refseq** NM\_001360551.3

**Protein Refseq** NP\_001347480.1

**MIM** 602279

**UniProt ID** G3V4T2

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