

Recombinant Human PABPC1, His-tagged

Cat. No. PABPC1-30620TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 96-636 of Human PABP with N terminal His tag; Predicted MWt 61 kDa.
Species	Human
Source	E.coli
ProteinLength	96-636 a.a.
Description	This gene encodes a poly(A) binding protein. The protein shuttles between the nucleus and cytoplasm and binds to the 3 poly(A) tail of eukaryotic messenger RNAs via RNA-recognition motifs. The binding of this protein to poly(A) promotes ribosome recruitment and translation initiation; it is also required for poly(A) shortening which is the first step in mRNA decay. The gene is part of a small gene family including three protein-coding genes and several pseudogenes.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 149 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

SGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVC DEN GSKGYGFVHFETQEAAE
 RAIEKMNGMMLLNDRKVFVGRF KSRKEREAE LGARAKEFTNVYIKNFGEDMDDERLK
 DLF GKFGPALSVKVM TDESGKSKGFGFVS FERHEDAQKAVD EMNGKELNGKQIYV
 GRAQKKVERQTELKRKFEQMKQDRIT RYQGVNLYVKNLDDGIDDERLRKEFSPFGT
 ITSAKVMM EGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPLYV ALAQRKEER
 QAHLTNQYMQRMASVRAVPNPVINPYQPA PPSGYFMAAIPQTQNRAAYPPSQIA
 QLRPSRWTAQGAR PHPFQNMPGAIRPAAPRPPFSTMRPASSQVPRVMSTQR VA
 NTSTQTMGPRPAAAAAATPAVRTVPQYKYAAGVRN PQQHLNAQPQVTMQQPAV
 HVQGQEPLTASMLASAPPQE QKQMLGERLFPLIQAMHPTLAGKITGMLLEIDNSELL
 HMLESPESLRSKVDEAVAVLQAHQAKEAAQKAVNSATGVPT V

GENE INFORMATION

Gene Name PABPC1 poly(A) binding protein, cytoplasmic 1 [Homo sapiens]

Official Symbol PABPC1

Synonyms PABPC1; poly(A) binding protein, cytoplasmic 1; PAB1, PABPC2, poly(A) binding protein, cytoplasmic 2; polyadenylate-binding protein 1; PABP1; PABPL1;

Gene ID 26986

mRNA Refseq NM_002568

Protein Refseq NP_002559

MIM 604679

Uniprot ID P11940

Chromosome 8q22.2-q23

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Location	
Pathway	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Deadenylation of mRNA, organism-specific biosystem; Deadenylation-dependent mRNA decay, organism-specific biosystem; Destabilization of mRNA by AUF1 (hnRNP D0), organism-specific biosystem;
Function	RNA binding; nucleotide binding; poly(A) RNA binding; poly(A) RNA binding; protein C-terminus binding;

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