

Recombinant Human PABPC1 protein, GST-tagged

Cat. No. PABPC1-648H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PABPC1(1 a.a. - 636 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-636 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	97.1 kDa
AA Sequence	MNPSAPSYPMASLYVGDLHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYV NFQQPADAERALDTMNFD VIKGKPVRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKA LYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEA AERIAEKMNGMMLNDRKVFV GRFKSRKEREAELEGARAKEFTNVYIKNFGEDMDDERLKDLFGKFGPALSVKVMTD E SGKSKGFGFVSFERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFE

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QMKQDRITRYQGVNLYVKN LDDGIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGF
 VCFSSPEEATKAVTEMNGRIVATKPLYVALAQRKEERQ AHLTNQYMQRMASVRV
 PNPVINPYQPAPPSGYFMAAIPQTQNRAAYPPSQIAQLRPSRWTAQGARPHPFQ
 NM PGAIRPAAPRPPFSTMRPASSQVPRVMSTQRVANTSTQTMGPRPAAAAAATP
 AVRTVPQYKYAAGVRNPQQHLN AQPQVTMQQPAVHVQGQEPLTASMLASAPPQE
 QKQMLGERLFPLIQAMHPTLAGKITGMLLEIDNSELLHMLESPESLRSKVDEAVAVL
 QAHQAKEAAQKAVNSATGVPTV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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; poly(A) binding protein, cytoplasmic 2; PAB1; PABP; PABPC2;

Gene ID

26986

mRNA Refseq

NM_002568

Protein Refseq

NP_002559

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MIM	604679
UniProt ID	P11940
Chromosome Location	8q22.2-q23
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; Eukaryotic Translation Initiation, organism-specific biosystem; Gene Expression, organism-specific biosystem;
Function	RNA binding; nucleotide binding; poly(A) RNA binding; poly(A) RNA binding; protein C-terminus binding; protein binding; translation activator activity;