

Polyadenylate-binding protein 1 Recombinant Protein | PABPC1 recombinant protein

Recombinant Human Polyadenylate-binding protein 1

CATALOG # AAA18481	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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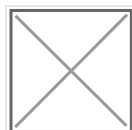
PRODUCT SYNONYMS

Polyadenylate-binding protein 1; Recombinant Human Polyadenylate-binding protein 1; PABPC1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-370aa; Partial
Sequence	MNPSAPSYPM ASLYVGD LHP DVTEAMLYEK FSPAGPILSI RVC RDMITRR SLGYAYVNFQ QPADAERALD TMNFDVIK GK PVRIMWSQRD PSLRKSGVGN IFIKNLDKSI DNKALYDTFS AFGNILSCKV VCDENGSKGY GFVHFETQEA AERAIEKMNG MLLNDRKV FV GRFKSRKERE AELGARAKEF TNVYIKNFGE DMDDERL KDL FGKFGPALSV KVM TDESGKS KGFGFVSFER HEDAQKAVDE MNGKELNGKQ IYVGRAQKKV ERQTELKRKF EQMKQDRITR YQGVNLYVKN LDDGIDDERL RKEFSPFGTI TSAKVMMEGG RSKGFGFVCF SSPEEATKAV TEMNGRIVAT KPLYVALAQR
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PABPC1 recombinant protein	Binds the poly(A) tail of mRNA, including that of its own transcript. May be involved in cytoplasmic regulatory processes of mRNA metabolism such as pre-mRNA splicing. Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Involved in regulation of nonsense-mediated decay (NMD) of mRNAs containing prature stop codons; for the recognition of prature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosome-bound release factors is proposed.
Product Categories/Family for PABPC1 recombinant protein	Epigenetics and Nuclear Signaling

References

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Submitted (MAR-2009) to UniProtKB The mRNA poly(A) -binding protein localization, abundance, and RNA-binding specificity. Goerlach M., Burd C.G., Dreyfuss G. *Exp. Cell Res.* 211:400-407(1994) The human poly(A) -binding protein 1 shuttles between the nucleus and the cytoplasm. Afonina E., Stauber R., Pavlakis G.N. *J. Biol. Chem.* 273:13015-13021(1998) Interaction of polyadenylate-binding protein with the eIF4G homologue PAIP enhances translation. Craig A.W.B., Haghighat A., Yu A.T.K., Sonenberg N. *Nature* 392:520-523(1998) A mechanism for translationally coupled mRNA turnover interaction between the poly(A) tail and a c-fos RNA coding determinant via a protein complex. Grosset C., Chen C.-Y.A., Xu N., Sonenberg N., Jacquemin-Sablon H., Shyu A.-B. *Cell* 103:29-40(2000) Translational repression by a novel partner of human poly(A) binding protein, Paip2. Khaleghpour K., Svitkin Y.V., Craig A.W.B., DeMaria C.T., Deo R.C., Burley S.K., Sonenberg N. *Mol. 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NCBI AND UNIPROT INFORMATION

NCBI GI #	46367787
NCBI GeneID	26986
NCBI Accession #	NP_002559.2
NCBI GenBank Nucleotide #	NM_002568.3
UniProt Accession #	P11940; Q15097; Q93004
Molecular Weight	57.8 kDa
NCBI Official Full Name	polyadenylate-binding protein 1
NCBI Official Synonym Full Names	poly(A) binding protein, cytoplasmic 1
NCBI Official Symbol	PABPC1
NCBI Official Synonym Symbols	PAB1; PABP; PABP1; PABPC2; PABPL1
NCBI Protein Information	polyadenylate-binding protein 1
UniProt Protein Name	Polyadenylate-binding protein 1
UniProt Gene Name	PABPC1
UniProt Synonym Gene Names	PAB1; PABP1; PABPC2; PABP-1; Poly(A)-binding protein 1
UniProt Entry Name	PABP1_HUMAN

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