



Recombinant Human Polyadenylate-binding protein 1 (PABPC1), partial

Product Code	CSB-EP017352HU
Relevance	Binds the poly(A) tail of mRNA, including that of its own transcript. May be involved in Cytoplasmic domain 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 domain RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the Cytoplasmic domain 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 premature stop codons; for the recognition of premature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosome-bound release factors is proposed.
Abbreviation	Recombinant Human PABPC1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P11940
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MNPSAPSYPMASLYVGDLPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLG YAYVNFQQPADAERALDTMNFVVIKGGKPVIRIMWSQRDPSLRKSGVGNIFIKNL DKSIDNKALYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEAERAIEKMN GMLLNDRKVFVGRFKSRKEREAEELGARAKEFTNVYIKNFGEDMDDERLKDLE GKFGPALSVMKMTDESCKSGKGFVFSFERHEDAQKAVDEMNGKELNGKQIYV GRAQKKVERQTELKRKFEQMKQDRITRYQGVNLYVKNLDDGIDDERLRKEFS PFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPLYVALA QR
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	PABPC1
Expression Region	1-370aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

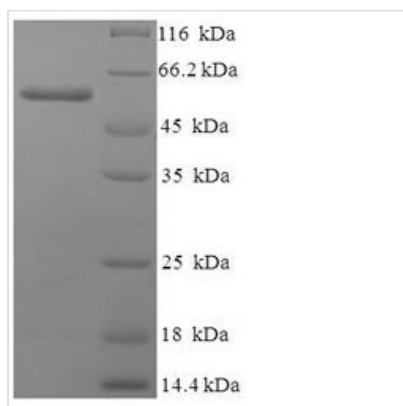


Tag Info N-terminal 6xHis-SUMO-tagged

Mol. Weight 57.8kDa

Protein Length Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.