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

Catalog No: #AP70615

Package Size: #AP70615-1 20ug #AP70615-2 100ug #AP70615-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human Polyadenylate-binding protein 1(PABPC1),partial
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-370aaSequence Info:Partial
Accession No.	P11940
Calculated MW	57.8 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MNPSAPSYPMASLYVGDLHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYVNFQQPADAERALDTMN FDVIKGKPVRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKALYDTFSAFGNILSCKVVCDENGSKGYGFVHFET QEAAERAIEKMNGMLLNDRKVFVGRFKSRKEREAELGARAKEFTNVYIKNFGEDMDDERLKDLFGKFGPALS VKVMTDESGKSKGFGFVSFERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFEQMKQDRITR YQGVNLYVKNLDDGIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGFVCFSSPEEATKAVTEMNGRIVATKPL YVALAQR
Formulation	Tris-based buffer50% glycerol
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.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 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.

References

Human senataxin resolves RNA,DNA hybrids formed at transcriptional pause sites to promote Xrn2-dependent termination.Skourti-Stathaki K., Proudfoot N.J., Gromak N.Mol. Cell 42:794-805(2011)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.