

Recombinant Human PABPC1 Protein (1-370 aa), His-SUMO-tagged

Cat. No. PABPC1-707H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human PABPC1 Protein (1-370 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Partial.

Species

Human

Source

E.coli

ProteinLength

1-370 aa

Description

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.

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Form	Tris-based buffer, 50% glycerol
Molecular Mass	57.8 kDa
AA Sequence	MNPSAPSYPMASLYVGDLHPDVTEAMLYEKFSPAGPILSIRVCRDMITRRSLGYAYV NFQQPADAERALDTMNFVKGKPVIRIMWSQRDPSLRKSGVGNIFIKNLDKSIDNKA LYDTFSAFGNILSCKVVCDENGSKGYGFVHFETQEAERAIEKMNGMMLNDRKVFV GRFKSRKEREAEELGARAKEFTNVYIKNFGEDMDDERLKDLFGKFGPALS VKVMTDE SGKSKGFGFVSFERHEDAQKAVDEMNGKELNGKQIYVGRAQKKVERQTELKRKFE QMKQDRITRYQGVNLYVKNLDDGIDDERLRKEFSPFGTITSAKVMMEGGRSKGFGF VCFSSPEEATKAVTEMNGRIVATKPLYVALAQR
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

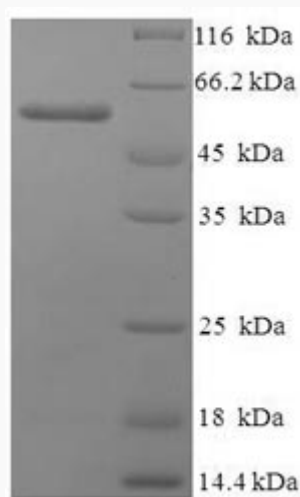
Gene Name	PABPC1 poly(A) binding protein, cytoplasmic 1 [Homo sapiens]
Official Symbol	PABPC1
Synonyms	PABPC1; PABP1; PABPL1; PAB1; PABP; PABPC2;

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Gene ID	26986
mRNA Refseq	NM_002568
Protein Refseq	NP_002559
MIM	604679
UniProt ID	P11940



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