Datasheet for ABIN7554873

PABP Protein (AA 1-636) (His tag)

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Overview

Quantity:	1 mg
Target:	PABP (PABPC1)
Protein Characteristics:	AA 1-636
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PABP protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat PABPC1 Protein expressed in mammalien cells.
Sequence:	MNPSAPSYPM ASLYVGDLHP DVTEAMLYEK FSPAGPILSI RVCRDMITRR SLGYAYVNFQ QPADAERALD TMNFDVIKGK PVRIMWSQRD PSLRKSGVGN IFIKNLDKSI DNKALYDTFS AFGNILSCKV VCDENGSKGY GFVHFETQEA AERAIEKMNG MLLNDRKVFV GRFKSRKERE AELGARAKEF TNVYIKNFGE DMDDERLKDL FGKFGPALSV KVMTDESGKS KGFGFVSFER HEDAQKAVDE MNGKELNGKQ IYVGRAQKKV ERQTELKRKF EQMKQDRITR YQGVNLYVKN LDDGIDDERL RKEFSPFGTI TSAKVMMEGG RSKGFGFVCF SSPEEATKAV TEMNGRIVAT KPLYVALAQR KEERQAHLTN QYMQRMASVR AVPNPVINPY QPAPPSGYFM AAIPQTQNRA AYYPPSQIAQ LRPSPRWTAQ GARPHPFQNM PGAIRPAAPR PPFSTMRPAS SQVPRVMSTQ RVANTSTQTM GPRPAAAAAA ATPAVRTVPQ YKYAAGVRNP QQHLNAQPQV TMQQPAVHVQ GQEPLTASML ASAPPQEQKQ MLGERLFPLI QAMHPTLAGK ITGMLLEIDN SELLHMLESP ESLRSKVDEA VAVLQAHQAK EAAQKAVNSA TGVPTV **Sequence without tag. The proposed**

Product Details

	Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	PABP (PABPC1)
Alternative Name:	PABPC1 (PABPC1 Products)
Background:	Polyadenylate-binding protein 1 (PABP-1) (Poly(A)-binding protein 1),FUNCTION: Binds the poly(A) tail of mRNA, including that of its own transcript, and regulates processes of mRNA metabolism such as pre-mRNA splicing and mRNA stability (PubMed:11051545, PubMed:17212783, PubMed:25480299). Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2 (PubMed:11051545, PubMed:20573744). Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Binds to N6-methyladenosine (m6A)-containing mRNAs and contributes to MYC stability by binding to m6A-containing MYC mRNAs (PubMed:32245947). Involved in translationally coupled mRNA turnover (PubMed:11051545). Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major

Target Details

	coding-region determinant of instability (mCRD) domain (PubMed:11051545). 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 (PubMed:18447585). By binding to long poly(A) tails, may protect them from uridylation by ZCCHC6/ZCCHC11 and hence contribute to mRNA stability (PubMed:25480299). {ECO:0000269|PubMed:11051545, ECO:0000269|PubMed:17212783, ECO:0000269|PubMed:18447585, ECO:0000269|PubMed:20573744, ECO:0000269|PubMed:25480299, ECO:0000269|PubMed:32245947}., FUNCTION: (Microbial infection) Positively regulates the replication of dengue virus (DENV). {ECO:0000269|PubMed:26735137}.
Molecular Weight:	70.7 kDa
UniProt:	P11940
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months