Datasheet for ABIN7553540

CPEB1 Protein (AA 1-566) (His tag)

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Overview

Quantity:	1 mg
Target:	CPEB1
Protein Characteristics:	AA 1-566
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPEB1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CPEB1 Protein expressed in mammalian cells.
Sequence:	MALSLEEEAG RIKDCWDNQE APALSTCSNA NIFRRINAIL DNSLDFSRVC TTPINRGIHD HLPDFQDSEE TVTSRMLFPT SAQESSRGLP DANDLCLGLQ SLSLTGWDRP WSTQDSDSSA QSSTHSVLSM LHNPLGNVLG KPPLSFLPLD PLGSDLVDKF PAPSVRGSRL DTRPILDSRS SSPSDSDTSG FSSGSDHLSD LISSLRISPP LPFLSLSGGG PRDPLKMGVG SRMDQEQAAL AAVTPSPTSA SKRWPGASVW PSWDLLEAPK DPFSIEREAR LHRQAAAVNE ATCTWSGQLP PRNYKNPIYS CKVFLGGVPW DITEAGLVNT FRVFGSLSVE WPGKDGKHPR CPPKGNMPKG YVYLVFELEK SVRSLLQACS HDPLSPDGLS EYYFKMSSRR MRCKEVQVIP WVLADSNFVR SPSQRLDPSR TVFVGALHGM LNAEALAAIL NDLFGGVVYA GIDTDKHKYP IGSGRVTFNN QRSYLKAVSA AFVEIKTTKF TKKVQIDPYL EDSLCHICSS QPGPFFCRDQ VCFKYFCRSC WHWRHSMEGL RHHSPLMRNQ KNRDSS **Sequence without tag. The proposed 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**

Product Details

	contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	CPEB1
Alternative Name:	CPEB1 (CPEB1 Products)
Background:	Cytoplasmic polyadenylation element-binding protein 1 (CPE-BP1) (CPE-binding protein 1) (h-CPEB) (hCPEB-1),FUNCTION: Sequence-specific RNA-binding protein that regulates mRNA cytoplasmic polyadenylation and translation initiation during oocyte maturation, early development and at postsynapse sites of neurons. Binds to the cytoplasmic polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUAU-3') within the mRNA 3'-UTR. RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (PubMed:24990967). In absence of phosphorylation and in association with TACC3 is also involved as a repressor of translation of CPE-containing mRNA, a repression that is relieved by phosphorylation or degradation (By similarity). Involved in the transport of CPE-containing mRNA to dendrites, those mRNAs may be transported to dendrites

Target Details

	in a translationally dormant form and translationally activated at synapses (By similarity). Its interaction with APLP1 promotes local CPE-containing mRNA polyadenylation and translation activation (By similarity). Induces the assembly of stress granules in the absence of stress. Required for cell cycle progression, specifically for prophase entry (PubMed:26398195). {ECO:0000250|UniProtKB:P70166, ECO:0000269|PubMed:15731006, ECO:0000269|PubMed:15966895, ECO:0000269|PubMed:24990967, ECO:0000269|PubMed:26398195}.
Molecular Weight:	62.6 kDa
UniProt:	Q9BZB8
Pathways:	Synaptic Membrane

Application Details

Application Notes:	We expect the protein to work for functional studies. 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