

Recombinant Human CPEB1 Protein (Cys311-Lys561), His tagged

Cat. No. CPEB1-2206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CPEB1 (Cys311-Lys561) fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Cys311-Lys561
Description	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. 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. Involved in the transport of CPE-containing mRNA to dendrites; those mRNAs may be transported to dendrites in a translationally dormant form and translationally activated at synapses. Its interaction with APLP1 promotes local CPE-containing mRNA polyadenylation and translation activation. Induces the assembly of stress granules in the absence of stress. Required for cell cycle progression, specifically for prophase entry

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Lyophilized powder/frozen liquid
Molecular Mass	29.21 kDa
Purity	>90% as determined by SDS-PAGE
Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS, pH 7.5 or lyophilized from PBS, pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	CPEB1 cytoplasmic polyadenylation element binding protein 1 [Homo sapiens (human)]
Official Symbol	CPEB1
Synonyms	CPEB1; cytoplasmic polyadenylation element binding protein 1; cytoplasmic polyadenylation element-binding protein 1; CPEB; FLJ13203; h-CEBP; hCPEB-1; CPE-binding protein 1; CEBP; CPE-BP1; MGC34136; MGC60106;
Gene ID	64506

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mRNA Refseq	NM_001079533
Protein Refseq	NP_001073001
MIM	607342
UniProt ID	Q9BZB8

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