

Recombinant Mouse Cpeb4 Protein, Myc/DDK-tagged

Cat. No. Cpeb4-2286M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytoplasmic polyadenylation element binding protein 4 (Cpeb4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Sequence-specific RNA-binding protein that 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. Regulates activation of unfolded protein response (UPR) in the process of adaptation to ER stress in liver, by maintaining translation of CPE-regulated mRNAs in conditions in which global protein synthesis is inhibited. Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation. Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT. Stimulates proliferation of melanocytes. In contrast to CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory.
Molecular Mass	80.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Cpeb4 cytoplasmic polyadenylation element binding protein 4 [Mus musculus (house mouse)]

Official Symbol Cpeb4

Synonyms Cpeb4; cytoplasmic polyadenylation element binding protein 4; Cpeb-4; Cpe-bp4; mCPEB-4; cytoplasmic polyadenylation element-binding protein 4; CPE-binding protein 4

Gene ID 67579

mRNA Refseq NM_026252

Protein Refseq NP_080528

UniProt ID Q7TN98

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