

CPEB4 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5628a**Specification**

CPEB4 Antibody (N-term) Blocking peptide - Product Information

Primary Accession [Q17RY0](#)
Other Accession [NP_085130.2](#)

CPEB4 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 80315

Other Names

Cytoplasmic polyadenylation element-binding protein 4, CPE-BP4, CPE-binding protein 4, hCPEB-4, CPEB4, KIAA1673

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CPEB4 Antibody (N-term) Blocking peptide - Protein Information

Name CPEB4

Synonyms KIAA1673

Function

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 (PubMed:24990967). RNA binding results in a clear conformational change analogous to the Venus fly trap mechanism (PubMed:24990967). 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 (By similarity). Required for cell cycle progression, specifically for cytokinesis and chromosomal segregation (PubMed:26398195). Plays a role as an oncogene promoting tumor growth and progression by positively regulating translation of t-plasminogen activator/PLAT (PubMed:22138752). Stimulates proliferation of melanocytes (PubMed:27857118). In contrast to

CPEB1 and CPEB3, does not play role in synaptic plasticity, learning and memory (By similarity).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:Q7TN98}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q7TN98}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q7TN98}. Postsynaptic density {ECO:0000250|UniProtKB:Q7TN98}. Cell projection, axon {ECO:0000250|UniProtKB:Q7TN98}. Cell projection, growth cone {ECO:0000250|UniProtKB:Q7TN98}. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q7TN98}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q7TN98}

Tissue Location

Expressed in pancreas in islets and ductal cells (at protein level) (PubMed:22138752). Expressed in melanocytes (PubMed:27857118).

CPEB4 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

CPEB4 Antibody (N-term) Blocking peptide - Images**CPEB4 Antibody (N-term) Blocking peptide - Background**

There are 3 named isoforms produced by alternative splicing.

CPEB4 Antibody (N-term) Blocking peptide - References

Kurihara, Y., et al. Biol. Reprod. 69(1):261-268(2003)