

**CPEB1 Antibody**

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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	65	Rabbit	#Q9BZB8	64506

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

CPEB1 Antibody recognizes endogenous levels of total CPEB1 protein.

**Source / Purification**

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu170 of human CPEB1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

**Background**

Cytoplasmic polyadenylation element-binding protein (CPEB) is a conserved protein that binds RNA and regulates translation (1-3). CPEB binds to the cytoplasmic polyadenylation element (CPE) located in the 3' untranslated region (UTR) of specific mRNAs expressed in germ cells, fibroblasts, and neurons (1-4). Together with other factors, CPEB promotes polyadenylation of mRNA transcripts to create mRNA poly(A) tails prior to translation (1-3). CPEB1 regulates meiotic and early-embryonic cell proliferation and is essential for mediation of poly(A) tail length changes required for mitotic cell division (4). Research studies suggest that CPEB1-mediated shortening of the 3'-UTR correlates with tumorigenesis (5).

**Background References**

1. Hake, L.E. and Richter, J.D. (1994) *Cell* 79, 617-27.
2. Mendez, R. et al. (2002) *EMBO J* 21, 1833-44.
3. Kim, J.H. and Richter, J.D. (2006) *Mol Cell* 24, 173-83.
4. Novoa, I. et al. (2010) *Nat Cell Biol* 12, 447-56.
5. Bava, F.A. et al. (2013) *Nature* 495, 121-5.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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