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Product datasheet for TP523088

Cpeb1 (NM_007755) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse cytoplasmic polyadenylation element binding protein 1 (Cpeb1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR223088 protein sequence Red=Cloning site Green=Tags(s) MAFSLEEAAGRIKDCWDNQEVPALSTCSNANIFRRINAILDDSLDFSKVCTTPINRGIHDQLPADFQDSE ETVTSRMLFPTSAQESPRGLPDANGLCLGLQSLSLTGWDRPWSTQDSDSSAQSSTQSVLSMLQNPLGNVL GKAPLSFLSLDPLGSDLDKFPAPSVRGSRLDTRPILDSRSSSPSDSDTSGFSSGSDHLSDLISSLRISPP LPFLSMTGNGPRDPLKMGVGSRMDQEQAALAAVAPSPTSAPKRWPGASVWPSWDLLGAPKDPFSIEREAR LHRQAAAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTFRVFGSLSVEWPGKDGKHPR CPPKGNMPKGYVYLVFELEKSVRALLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVW SPSQRLDPSRTVFVGALHGMLNAEALAAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNNQRSYLKAVTA AFVEIKTTKFTKKVQIDPYLEDSLCLICSSQPGPFFCRDQVCFKYFCRSCWHWRHSMEGLRHHSPLMRNQ KN TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	62 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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RefSeq:	NP_031781
Locus ID:	12877
UniProt ID:	P70166
RefSeq Size:	3138
Cytogenetics:	7 D3
RefSeq ORF:	1689
Synonyms:	AU024112; Cpe-bp1; Cpeb; mCPEB; mCpeb-1
Summary:	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 3' UTR of mRNAs. 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 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 (By similarity). Required for cell cycle progression, specifically for prophase entry (By similarity). [UniProtKB/Swiss-Prot Function]