

# Recombinant human Cytoplasmic polyadenylation element-binding protein 1

Catalog No: #AP71513

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Package Size: #AP71513-1 20ug #AP71513-2 100ug #AP71513-3 1mg

## Description

|                       |  |
|-----------------------|--|
| Product Name          | Recombinant human Cytoplasmic polyadenylation element-binding protein 1  |
| Brief Description     | Recombinant Protein  |
| Host Species          | E.coli   |
| Purification          | Greater than 90% as determined by SDS-PAGE.  |
| Immunogen Description | Expression Region:1-486aaSequence Info:Full Length of isoform 4  |
| Accession No.         | Q9BZB8   |
| Uniprot               | Q9BZB8   |
| GeneID                | 64506;   |
| Calculated MW         | 69.6 kDa   |
| Tag Info              | N-terminal 6xHis-SUMO-tagged   |
| Target Sequence       | MLFPTSAQESSRGLPDANDLCLGLQSLSLTGWDRPWSTQSDSSAQSSSTHSVLSMLHNPLGNVLGKPPLSFL<br>PLDPLGSDLVDKFPAPSVRGSRLDTRPILDSRSSSPSDSDTSGFSSGSDHLSDLISSLRISPPFLSLSGGGP<br>RDPLKMGVGSRMDQEQAALAAVTPSPTSASKRWPGASVWPSWDLLEAPKDPFSIEREARLHRQAAAVNEAT<br>CTWSQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTRFRVFGSLSVEWPGKDGKHPRCPPKGYVYLVFELE<br>KSVRSLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVRSRPSQRLDPSRTVFVGHGML<br>NAEALAAAILNDFGGVVYAGIDTDKHKYPIGSGRVTFNNQRSYLKAVSAAFVEIKTKFTKKVQIDPYLEDLCHI<br>CSSQPGPFPCRDQVCFKYFCRSCWHWRHSMEGLRHHSPLMRNQKNRDSS |
| Formulation           | Tris-based buffer50% glycerol  |
| Storage               | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.<br><br>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.  |

## Background

Sequence-specific RNA-binding protein that regulates mRNA Cytoplasmic domain polyadenylation and translation initiation during oocyte maturation, early development and at postsynapse sites of neurons. Binds to the Cytoplasmic domain polyadenylation element (CPE), an uridine-rich sequence element (consensus sequence 5'-UUUUUUAU-3') within the mRNA 3'-UTR. 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.

## References

Identification and characterization of the gene encoding human Cytoplasmic domain polyadenylation element binding protein.Welk J.F., Charlesworth A., Smith G.D., MacNicol A.M.Gene 263:113-120(2001)Research Topic:Epigenetics and Nuclear Signaling

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Note: This product is for in vitro research use only