

Recombinant Mouse Pabpc1 Protein, Myc/DDK-tagged

Cat. No. Pabpc1-4644M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length poly(A) binding protein, cytoplasmic 1 (Pabpc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Binds the poly(A) tail of mRNA, including that of its own transcript, and regulates processes of mRNA metabolism such as pre-mRNA splicing and mRNA stability. Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. Involved in regulation of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons; for the recognition of premature termination codons (PTC) and initiation of NMD a competitive interaction between UPF1 and PABPC1 with the ribosome-bound release factors is proposed. By binding to long poly(A) tails, may protect them from uridylation by ZCCHC6/ZCCHC11 and hence contribute to mRNA stability.
Molecular Mass	71.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Stability	Stable for 12 months from the date of receipt of the product under proper storage and 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	Pabpc1 poly(A) binding protein, cytoplasmic 1 [Mus musculus (house mouse)]
Official Symbol	Pabpc1
Synonyms	PABPC1; poly(A) binding protein, cytoplasmic 1; polyadenylate-binding protein 1; PABP-1; poly A binding protein 1; poly(A)-binding protein 1; PABP; ePAB; Pabp1; Pabpl; Pabpl1
Gene ID	18458
mRNA Refseq	NM_008774
Protein Refseq	NP_032800
UniProt ID	P29341

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