

PABPC1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP2920c

Specification

PABPC1 Antibody (Center) - Product Information

Application WB, IHC-P,E Primary Accession P11940

Other Accession Q6IP09, P20965,

Q9EPH8, P29341,

P61286

Reactivity Human, Mouse Predicted Bovine, Rat,

Xenopus

Host Rabbit
Clonality Polyclonal
Isotype Rabbit Ig
Calculated MW 70671
Antigen Region 250-279

PABPC1 Antibody (Center) - Additional Information

Gene ID 26986

Other Names

Polyadenylate-binding protein 1, PABP-1, Poly(A)-binding protein 1, PABPC1, PAB1, PABP1, PABPC2

Target/Specificity

This PABPC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-279 amino acids from the Central region of human PABPC1.

Dilution

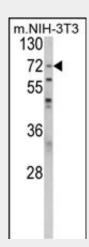
WB~~1:1000 IHC-P~~1:50~100

Format

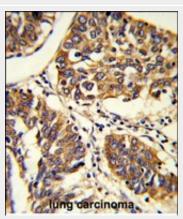
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

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



Western blot analysis of PABPC1 Antibody (Center) (Cat. #AP2920c) in NIH-3T3 cell line lysates (35ug/lane). PABPC1 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human lung carcinoma reacted with PABPC1 Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

PABPC1 Antibody (Center) - Background

PABPC1 binds the poly(A) tail of mRNA. It may be involved in cytoplasmic regulatory





in small aliquots to prevent freeze-thaw cycles.

Precautions

PABPC1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PABPC1 Antibody (Center) - Protein Information

Name PABPC1

Synonyms PAB1, PABP1, PABPC2

Function 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 (PubMed:11051545, PubMed:17212783, PubMed:25480299). Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2 (PubMed:11051545, PubMed:20573744). Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. Involved in translationally coupled mRNA turnover (PubMed:11051545). Implicated with other RNA-binding proteins in the cytoplasmic deadenvlation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain (PubMed: 11051545). Involved in regulation of nonsensemediated 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

processes of mRNA metabolism such as pre-mRNA splicing. Its function in translational initiation regulation can either be enhanced by PAIP1 or repressed by PAIP2. PABPC1 can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. It may be 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.

PABPC1 Antibody (Center) - References

Le Clerc,S., et.al., J. Infect. Dis. 200 (8), 1194-1201 (2009)



PABPC1 with the ribosome- bound release factors is proposed (PubMed:18447585). By binding to long poly(A) tails, may protect them from uridylation by ZCCHC6/ZCCHC11 and hence contribute to mRNA stability (PubMed:25480299).

Cellular Location

Cytoplasm. Cytoplasm, Stress granule. Nucleus. Cell projection, lamellipodium. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs (PubMed:17289661). Shuttles between the cytoplasm and the nucleus (PubMed:9582337). During stress and in the absence of DDX3X, localizes to the nucleus (PubMed:21883093). At the leading edge of migrating fibroblasts, colocalizes with DDX3X (PubMed:28733330). Relocalizes to cytoplasmic stress granules upon cellular stress where it colocalizes with ENDOV (PubMed:27573237). In case of HRSV infection, localizes in cytoplasmic inclusion bodies substructures called inclusion bodies associated granules (IBAGs) (PubMed:31649314).

Tissue Location Ubiquitous.

PABPC1 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture