

# PABP1 (PT1397R) PT™ Rabbit mAb

CatalogNo: YM9239 **Recombinant** 

## Key Features

### Host Species

- Rabbit

### Reactivity

- Human, Mouse, Rat

### Applications

- WB, IHC, IF, IP, ELISA

### MW

- 71kD (Calculated)  
71kD (Observed)

### Isotype

- IgG, Kappa

## Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

## Recommended Dilution Ratios

**IHC 1:200-1:1000****WB 1:2000-1:10000****IF 1:200-1:1000****ELISA 1:5000-1:20000****IP 1:50-1:200**

## Basic Information

**Clonality** Monoclonal**Clone Number** PT1397R

## Immunogen Information

**Specificity** Endogenous

## Target Information

**Gene name** PABPC1 PAB1 PABP1 PABPC2

**Protein Name** Polyadenylate-binding protein 1 (PABP-1) (Poly(A)-binding protein 1)

Organism	Gene ID	UniProt ID
Human	<a href="#">26986</a> ;	<a href="#">P11940</a> ;
Mouse		<a href="#">P29341</a> ;
Rat		<a href="#">Q9EPH8</a> ;

### Cellular Localization

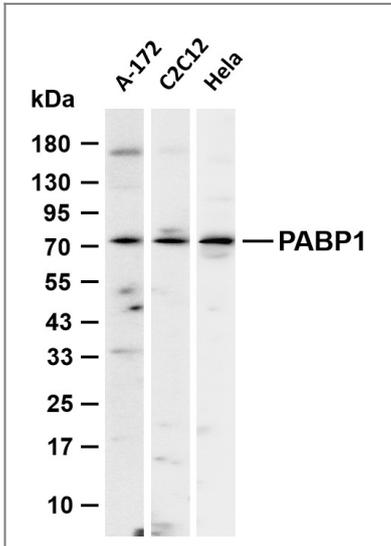
Cytoplasm . Cytoplasm, Stress granule . Nucleus . Cell projection, lamellipodium . Localized in cytoplasmic mRNP granules containing untranslated mRNAs (PubMed:17289661). Shuttles between the cytoplasm and the nucleus (PubMed:9582337). During stress and in the absence of DDX3X, localizes to the nucleus (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 specificity** Ubiquitous.

### Function

Caution:Was originally (Ref.4) termed polyadenylate binding protein II.,Domain:The RNA-binding domains RRM1 and RRM2 and the C-terminus (last 138 amino acids) regions interact with the PABPC1-interacting motif-1 (PAM1) and -2 (PAM2) of PAIP1, respectively.,Domain:The RNA-binding domains RRM2 and RRM3 and the C-terminus (last 138 amino acids) regions interact with the PABPC1-interacting motif-1 (PAM1) and -2 (PAM2) of PAIP2, respectively.,Function:Binds the poly(A) tail of mRNA. May be involved in cytoplasmic regulatory 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. Can probably bind to cytoplasmic RNA sequences other than poly(A) in vivo. 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.,PTM:Arg-493 is dimethylated, probably to asymmetric dimethylarginine.,PTM:Methylated by CARM1.,similarity:Belongs to the polyadenylate-binding protein type-1 family.,similarity:Contains 1 PABC domain.,similarity:Contains 4 RRM (RNA recognition motif) domains.,subcellular location:Shuttles between the cytoplasm and the nucleus. Relocalizes to the nucleus upon rotavirus A infection.,subunit:Component of a multi subunit autoregulatory ribonucleoprotein complex (ARC), at least composed of IGF2BP1, PABPC1 and CSDE1. Interacts with IGF2BP1. Part of a complex associated with the FOS mCRD domain and consisting of HNRPD, SYNCRIP, PAIP1 and CSDE1/UNR. Interacts with the PABPC1-interacting motif-1 (PAM1) and -2 (PAM2) of PAIP1 and PAIP2. Interacts with PAIP1 with a 1:1 stoichiometry and with PAIP2 with a 1:2 stoichiometry. The interaction with CSDE1 is direct and RNA-independent. Found in a mRNP complex with YBX2. Interacts with PAPD4/GLD2. Identified in the spliceosome C complex, at least composed of AQR, ASCC3L1, C19orf29, CDC40, CDC5L, CRNKL1, DDX23, DDX41, DDX48, DDX5, DGCR14, DHX35, DHX38, DHX8, EFTUD2, FRG1, GPATC1, HNRPA1, HNRPA2B1, HNRPA3, HNRPC, HNRPF, HNRPH1, HNRPK, HNRPM, HNRPR, HNRPU, KIAA1160, KIAA1604, LSM2, LSM3, MAGOH, MORG1, PABPC1, PLRG1, PNN, PPIE, PPIL1, PPIL3, PPWD1, PRPF19, PRPF4B, PRPF6, PRPF8, RALY, RBM22, RBM8A, RBMX, SART1, SF3A1, SF3A2, SF3A3, SF3B1, SF3B2, SF3B3, SFRS1, SKIV2L2, SNRPA1, SNRPB, SNRPB2, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF, SNRPG, SNW1, SRRM1, SRRM2, SYF2, SYNCRIP, TFIP11, THOC4, U2AF1, WDR57, XAB2 and ZCCHC8. Interacts with PIWIL1 (By similarity). Interacts with NXF1.,tissue specificity:Ubiquitous.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PABP1 (PT1397R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: A-172 Lane 2: C2C12 Lane 3: HeLa Predicted band size: 71kDa Observed band size: 71kDa

## Contact information

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**PT™ Rabbit mAb**

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