

For Research Use Only

# PABPC1,PABP Polyclonal antibody

Catalog Number:10970-1-AP

Featured Product

40 Publications



## Basic Information

### Catalog Number:

10970-1-AP

### Size:

150ul , Concentration: 600 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1422

### GenBank Accession Number:

BC015958

### GeneID (NCBI):

26986

### UNIPROT ID:

P11940

### Full Name:

poly(A) binding protein, cytoplasmic 1

### Calculated MW:

71 kDa

### Observed MW:

71 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : HCT 116 cells, mouse testis tissue, PC-3 cells, HeLa cells, A549 cells, rat testis tissue, HT-29 cells, MCF-7 cells, NCI-H1299 cells, HCT-116 cells

**IP** : mouse testis tissue,

**IHC** : human pancreas tissue, human testis tissue

**IF/ICC** : MCF-7 cells,

## Background Information

The poly(A)-binding protein (PABP), which is found complexed to the 3-prime poly(A) tail of eukaryotic mRNA, is required for poly(A) shortening and translation initiation [PMID: 21989405]. Polyadenylate-binding protein 1 (PABPC1) is a cytoplasmic-nuclear shuttling protein important for protein translation initiation, and both RNA processing and stability. In the cytoplasm, PABPC1 binds to the 3' poly(A) tail of eukaryotic mRNAs through its RNA-recognition motifs (RRM) and interacts with the N-terminus of eIF4G, part of the eIF4F complex associated with the 5' cap structure [PMID:20009508, 17381337].

## Notable Publications

Author	Pubmed ID	Journal	Application
S Prpar Mihevc	27665936	Sci Rep	WB,IF
Rhea Nadkarni	36129453	J Exp Med	WB
Qianqian Yang	36434041	Exp Mol Med	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

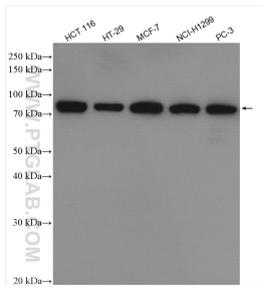
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

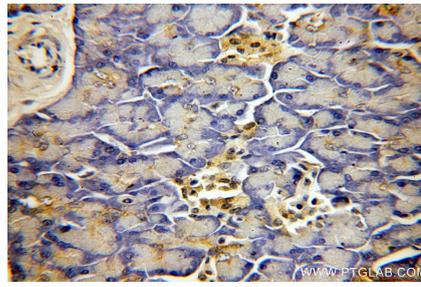
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

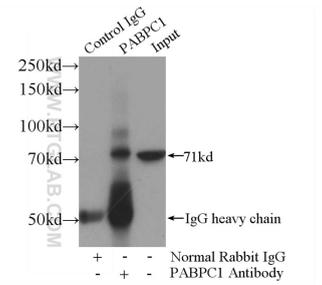
## Selected Validation Data



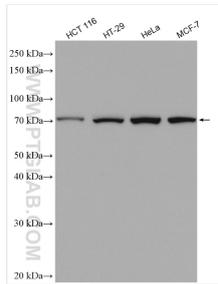
Various lysates were subjected to SDS PAGE followed by western blot with 10970-1-AP (PABPC1,PABP antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



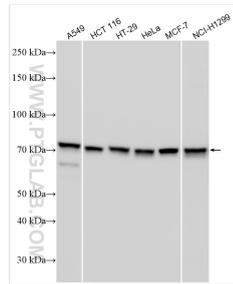
Immunohistochemical analysis of paraffin-embedded human pancreas using 10970-1-AP (PABPC1,PABP antibody) at dilution of 1:50 (under 40x lens).



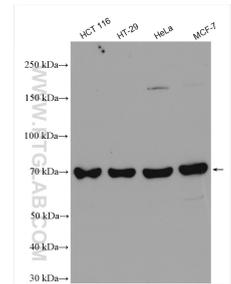
IP result of anti-PABPC1,PABP (IP:10970-1-AP, 4ug; Detection:10970-1-AP 1:700) with mouse testis tissue lysate 4000ug.



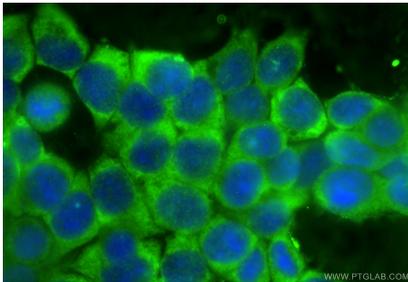
Various lysates were subjected to SDS PAGE followed by western blot with 10970-1-AP (PABPC1,PABP antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10970-1-AP (PABPC1,PABP antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10970-1-AP (PABPC1,PABP antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using PABPC1,PABP antibody (10970-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).