

For Research Use Only

# PABPN1 Monoclonal antibody

Catalog Number: 66807-1-Ig

Featured Product

4 Publications



## Basic Information

### Catalog Number:

66807-1-Ig

### Size:

1400 µg/ml

### Source:

Mouse

### Isotype:

IgG1

### Immunogen Catalog Number:

AG27470

### GenBank Accession Number:

BC010939

### GeneID (NCBI):

8106

### UNIPROT ID:

Q86U42

### Full Name:

poly(A) binding protein, nuclear 1

### Calculated MW:

33 kDa

### Observed MW:

50-56 kDa

### Purification Method:

Protein G purification

### CloneNo.:

3C12E12

### Recommended Dilutions:

WB 1:1000-1:6000

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

IHC 1:500-1:2000

IF 1:1000-1:4000

## Applications

### Tested Applications:

WB, IP, IF/ICC, IHC, ELISA

### Cited Applications:

WB, RIP, IHC

### Species Specificity:

Human, Mouse, Rat

### Cited Species:

human, mouse

**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** : HeLa cells, HepG2 cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, K-562 cells, PC-12 cells

**IP** : Jurkat cells,

**IHC** : human colon tissue, human colon cancer tissue, rat heart tissue, mouse heart tissue

**IF** : MCF-7 cells,

## Background Information

Poly(A) Binding Protein Nuclear 1 (PABPN1) is one of the isoforms of poly(A) binding protein (PABP) that locating to the nucleus in eukaryotic cells. And PABPN1 plays important role in mRNA stability by regulating of poly-A tail length, mRNA decay and proximal polyadenylation site (PAS) utilization at the 3'-UTR (PMID:23300856). Another report showed that PABPN1 shuttles between the nucleus and the cytoplasm to export poly(A) RNA from the nucleus (PMID:23601051). It is reported that PABPN1 is ubiquitously expressed in almost all tissues, however, mutations in PABPN1 causes Oculopharyngeal Muscular Dystrophy (OPMD) which affected in skeletal muscles specifically. Because of a mild reduction in PABPN1 levels is sufficient to induce muscle wasting (PMID:27152426). Acetylation, Methylation, Phosphoprotein are common post-translational modifications of PABPN1 protein. And 50-55 kDa bands have been reported (PMID: 29939290; 28361972).

## Notable Publications

Author	Pubmed ID	Journal	Application
J J David Ho	34644561	Cell Rep	WB
Baiqing Tang	35963436	J Biol Chem	WB
Albertas Navickas	37156909	Nat Cell Biol	WB

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

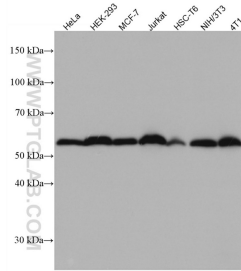
T: 4006900926

E: Proteintech-CN@ptglab.com

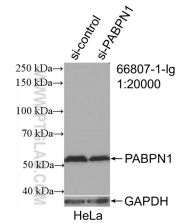
W: ptgcn.com

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

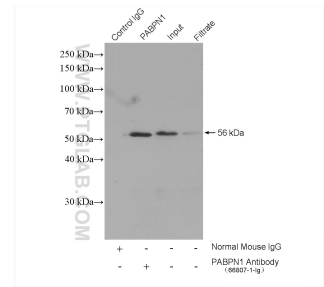
## Selected Validation Data



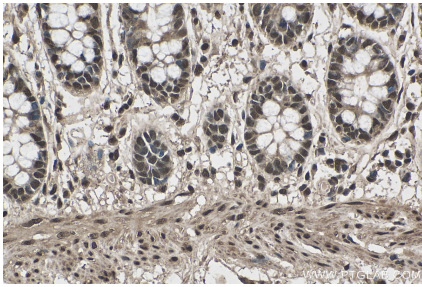
Various lysates were subjected to SDS PAGE followed by western blot with 66807-1-Ig (PABPN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



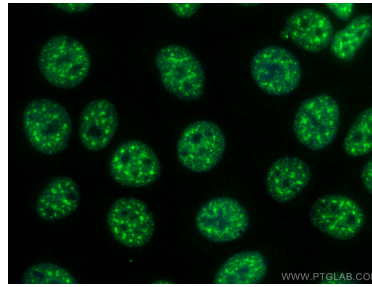
WB result of PABPN1 antibody (66807-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PABPN1 transfected HeLa cells.



IP result of anti-PABPN1 (IP:66807-1-Ig, 5ug; Detection:66807-1-Ig 1:600) with Jurkat cells lysate 1680 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 66807-1-Ig (PABPN1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using PABPN1 antibody (66807-1-Ig, Clone: 3C12E12) at dilution of 1:2000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).