

For Research Use Only

# PTBP1 Polyclonal antibody

Catalog Number: 12582-1-AP

Featured Product

54 Publications



## Basic Information

Catalog Number:

12582-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3277

GenBank Accession Number:

BC013694

GeneID (NCBI):

5725

UNIPROT ID:

P26599

Full Name:

polypyrimidine tract binding protein  
1

Calculated MW:

60 kDa

Observed MW:

60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

IHC: 1:50-1:500

IF-P: 1:50-1:500

## Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

**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**: A431 cells, HeLa cells, rat heart tissue, mouse  
lung tissue, BxPC-3 cells, Jurkat cells, K-562 cells

**IHC**: human prostate cancer tissue, human pancreas  
tissue, mouse brain tissue

**IF-P**: mouse brain tissue,

## Background Information

Polypyrimidine tract-binding protein (PTBP1), also known as heterogeneous nuclear ribonucleoprotein type I (hnRNP I), is a nuclear protein that binds pre-mRNAs in specific regions of the hnRNA-protein complexes sensitive to micrococcal nuclease. It involves in pre-mRNA splicing and the regulation of alternative splicing events. PTBP1 promotes RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA, and promotes the binding of U2 snRNP to pre-mRNA. Besides, it can cooperate with RAVR1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA, and represses the splicing of MAPT/Tau exon 10

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Meng Sun	31387917	Blood	RIP
Juan Wang	35003358	J Cancer	WB, RIP
Li Wang	36255739	Hum Mol Genet	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

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

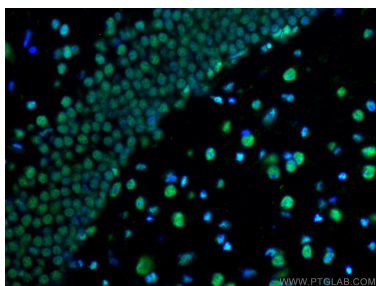
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

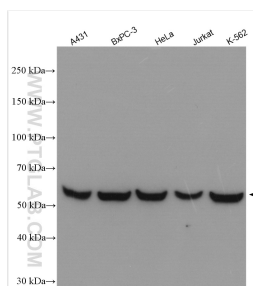
W: [ptgcn.com](http://ptgcn.com)

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

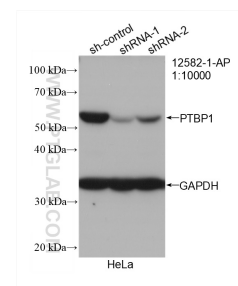
## Selected Validation Data



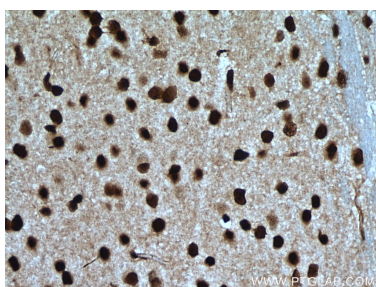
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 12582-1-AP (PTBP1 antibody), at dilution of 1:100 and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



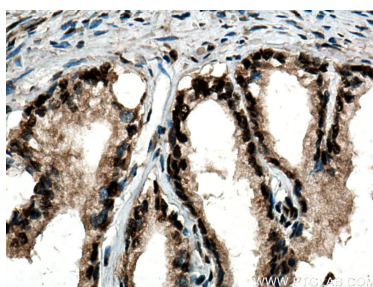
Various lysates were subjected to SDS PAGE followed by western blot with 12582-1-AP (PTBP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



WB result of PTBP1 antibody (12582-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTBP1 transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 12582-1-AP (PTBP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 12582-1-AP (PTBP1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).