

# PTBP1 Polyclonal antibody

Catalog Number: 12582-1-AP

Featured Product

40 Publications

## Basic Information

## Catalog Number:

12582-1-AP

## Size:

400 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG3277

## GenBank Accession Number:

BC013694

## GeneID (NCBI):

5725

## UNIPROT ID:

P26599

## Full Name:

polypyrimidine tract binding protein  
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## 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 1:50-1:500

## Applications

## Tested Applications:

IF-P, IHC, WB, ELISA

## Cited Applications:

WB, RIP, IP, IHC, IF

## Species Specificity:

human, mouse, rat

## Cited Species:

human, rat, 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**: 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**: 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

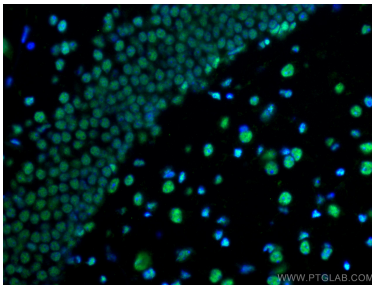
For technical support and original validation data for this product please contact:

T: 4006900926

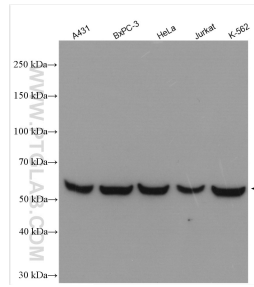
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

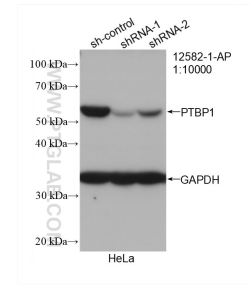
## Selected Validation Data



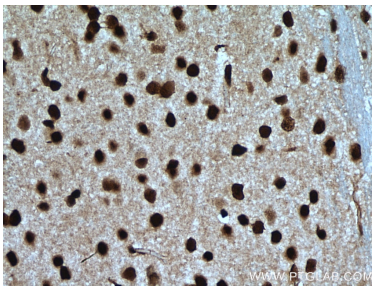
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 12582-1-AP (PTBP1 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



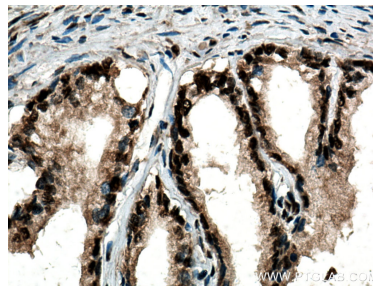
Various lysates were subjected to SDS PAGE followed by western blot with 12582-1-AP (PTBP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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).