

For Research Use Only

PTBP1 Polyclonal antibody

Catalog Number: 12582-1-AP

Featured Product

40 Publications



Basic Information

Catalog Number: 12582-1-AP	GenBank Accession Number: BC013694	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop;	GeneID (NCBI): 5725	Recommended Dilutions: WB 1:2000-1:16000 IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P26599	
Isotype: IgG	Full Name: polypyrimidine tract binding protein 1	
Immunogen Catalog Number: AG3277	Calculated MW: 60 kDa	
	Observed MW: 60 kDa	

Applications

Tested Applications:

IF, 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

*** 20ul sizes contain 0.1% BSA

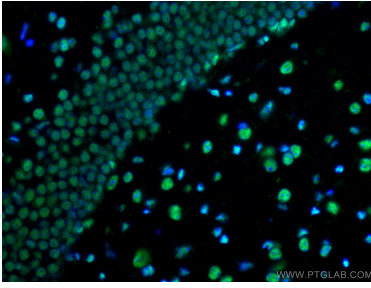
For technical support and original validation data for this product please contact:

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

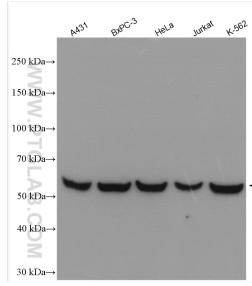
E: proteintech@ptglab.com
W: ptglab.com

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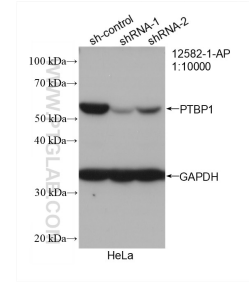
Selected Validation Data



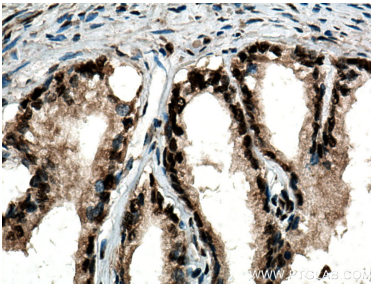
Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 12582-1-AP (PTBP1 antibody), at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



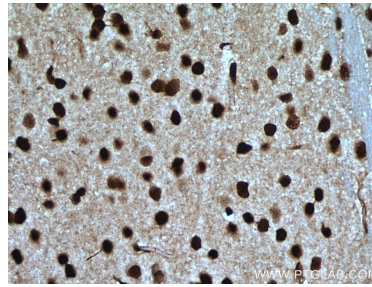
Various lysates were subjected to SDS PAGE followed by western blot with 12582-1-AP (PTBP1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



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 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).



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).