

## PTBP1 Polyclonal Antibody

Catalog number: 12582-1-AP

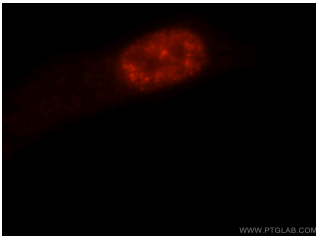
Size: 37 µg/150 µl

Source: Rabbit

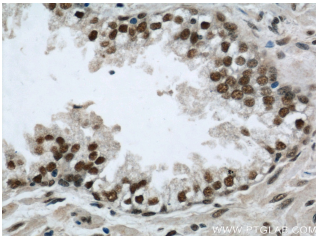
Isotype: IgG

Synonyms:

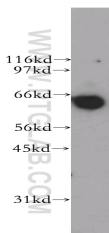
PTBP1; HNRNP I, HNRNPI,  
HNRPI, pPTB, PTB, PTB 1, PTB  
T, PTB2, PTB3, PTB4, PTBP1



Immunofluorescent analysis of A2780 cells, using PTBP1 antibody 12582-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemistry of paraffin-embedded human prostate cancer slide using 12582-1-AP( PTBP1 Antibody) at dilution of 1:50



Jurkat cells were subjected to SDS PAGE followed by western blot with 12582-1-AP(PTBP1 antibody) at dilution of 1:400

### Background

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 RAVER1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA, and represses the splicing of MAPT/Tau exon 10

### Applications

Tested applications:	ELISA, WB, IF, IHC
Cited applications:	WB
Species specificity:	Human, Mouse, Rat; other species not tested.
Cited species:	Human, mouse
Calculated PTBP1 MW:	59.6 kDa
Observed PTBP1 MW:	59.6kd
Positive WB detected in	Jurkat cells, BxPC-3 cells, HeLa cells, human lung tissue, K-562 cells, mouse lung tissue, rat heart tissue
Positive IHC detected in	Human prostate cancer tissue, human pancreas tissue
Positive IF detected in	A2780 cells
Recommended dilution:	WB: 1:1000-1:10000 IHC: 1:20-1:200 IF: 1:10-1:100

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

### Immunogen information

Immunogen:	Ag3277
GenBank accession number:	BC013694
Gene ID (NCBI):	5725
Full name:	Polypyrimidine tract binding protein 1

### Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.