

For Research Use Only

PTBP1 Monoclonal antibody

Catalog Number: 67462-1-Ig

Featured Product

4 Publications



Basic Information

Catalog Number:

67462-1-Ig

Concentration:

2000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28404

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:

Protein A purification

CloneNo.:

3D6D8

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB

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 : A549 cells, HeLa cells, LNCaP cells, HEK-293 cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

IHC : human colon cancer tissue, human pancreas cancer tissue

IF/ICC : A375 cells,

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
Qing Meng	39702234	Biol Direct	WB
Mi Zhang	39049786	J Oral Rehabil	WB
Yanlin Su	38563050	Folia Histochem Cytobiol	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:

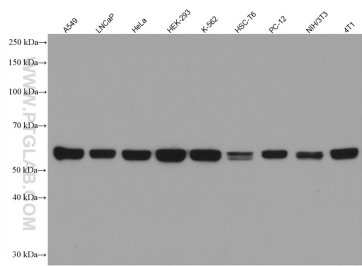
T: 4006900926

E: Proteintech-CN@ptglab.com

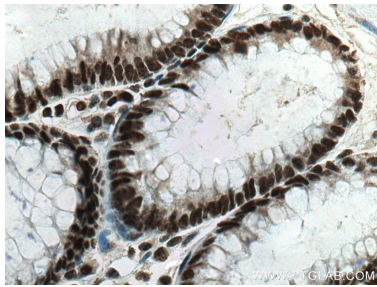
W: ptgcn.com

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

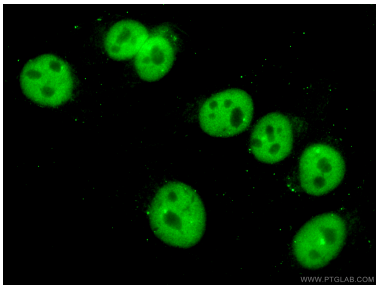
Selected Validation Data



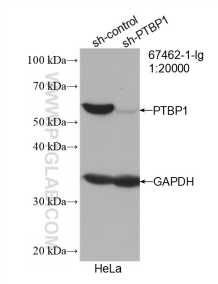
Various lysates were subjected to SDS PAGE followed by western blot with 67462-1-Ig (PTBP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67462-1-Ig (PTBP1 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 A375 cells using 67462-1-Ig (PTBP1 antibody), at dilution of 1:200 and Coralite®488-Conjugated Goat Anti-Mouse IgG(H+L).



WB result of PTBP1 antibody (67462-1-Ig; 1:20000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PTBP1 transfected HeLa cells.