

KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1652**Specification****KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P26599
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 60 kDa , observed , 57 kDa KDa
Gene Name	PTBP1
Aliases	Polypyrimidine Tract Binding Protein 1; Heterogeneous Nuclear Ribonucleoprotein I; HNRNP-I; HNRPI; PTB-1; PTB2; PTB3; PTB4; PPTB; PTB; Polypyrimidine Tract Binding Protein (Heterogeneous Nuclear Ribonucleoprotein I); Polypyrimidine Tract-Binding Protein 1; 57 KDa RNA-Binding Protein PPTB-1; HnRNP I; Heterogeneous Nuclear Ribonucleoprotein Polypeptide I; RNA-Binding Protein; HNRNPI; PTB-T
Immunogen	A synthesized peptide derived from human PTBP1

KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	5725
Other Names	
Polypyrimidine tract-binding protein 1, PTB, 57 kDa RNA-binding protein PPTB-1, Heterogeneous nuclear ribonucleoprotein I, hnRNP I, PTBP1, PTB	

KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody - Protein Information**Name** PTBP1**Synonyms** PTB**Function**

Plays a role in pre-mRNA splicing and in the regulation of alternative splicing events. Activates exon skipping of its own pre- mRNA during muscle cell differentiation. Binds to the polypyrimidine tract of introns. May promote RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA. May promote the binding of U2 snRNP to pre-mRNA. Cooperates with RAVER1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA. Represses the splicing of MAPT/Tau exon 10 (PubMed:15009664). Binds to

polypyrimidine-rich controlling element (PCE) of CFTR and promotes exon skipping of CFTR exon 9, thereby antagonizing TIA1 and its role in exon inclusion of CFTR exon 9 (PubMed:14966131). Plays a role in the splicing of pyruvate kinase PKM by binding repressively to a polypyrimidine tract flanking PKM exon 9, inhibiting exon 9 inclusion and resulting in exon 10 inclusion and production of the PKM M2 isoform (PubMed:20010808). In case of infection by picornaviruses, binds to the viral internal ribosome entry site (IRES) and stimulates the IRES- mediated translation (PubMed:21518806).

Cellular Location

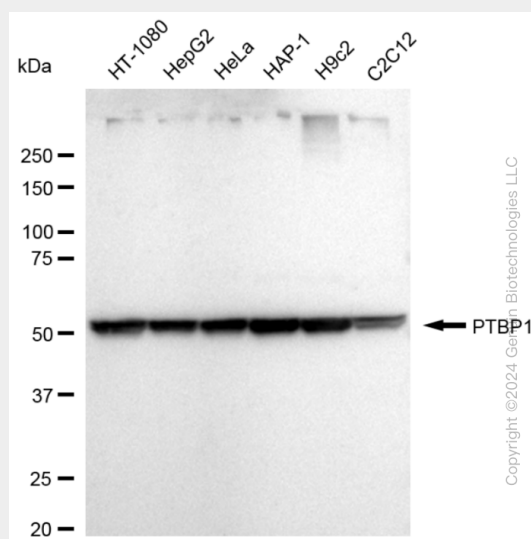
Nucleus.

KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody - Protocols

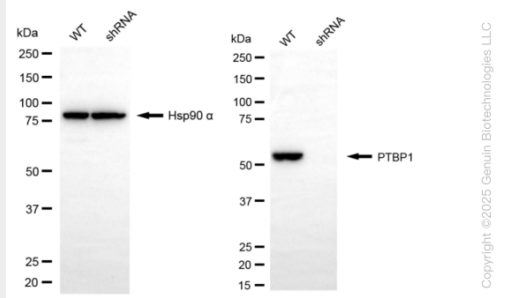
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

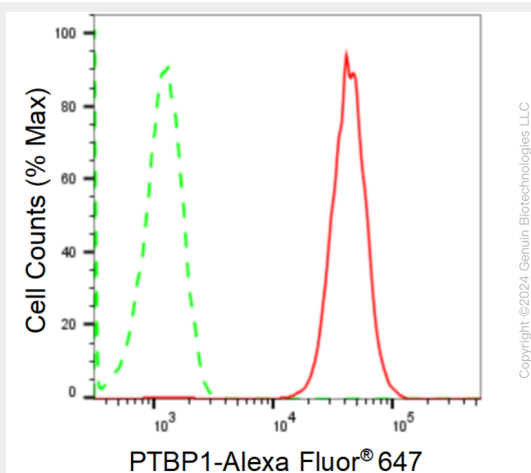
KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-PTBP1 antibody (Cat#AGI1652). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-PTBP1 antibody (Cat#AGI1652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-PTBP1 antibody (Cat#AGI1652). PTBP1 expression in wild-type (WT) and PTBP1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-PTBP1 antibody (Cat#AGI1652, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of PTBP1 expression in HAP-1 cells using anti-PTBP1 antibody (Cat#AGI1652, 1:2,000). Green, isotype control; red, PTBP1.