10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-PTBP1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1652

Product Information

Application	WB, FC
Primary Accession	P26599
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB1095
Calculated MW	59633
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

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

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.