

PTBP1 Antibody (N-Terminus)
Goat Polyclonal Antibody
Catalog # ALS12712**Specification**

PTBP1 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	P26599
Reactivity	Human, Mouse, Rat, Hamster, Monkey, Pig, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	57kDa KDa

PTBP1 Antibody (N-Terminus) - 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

Target/Specificity

Human PTBP1. This antibody is expected to recognise all 4 reported isoforms (represented by NP_002810.1; NP_114367.1; NP_114368.1; NP_787041.1).

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

PTBP1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PTBP1 Antibody (N-Terminus) - 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

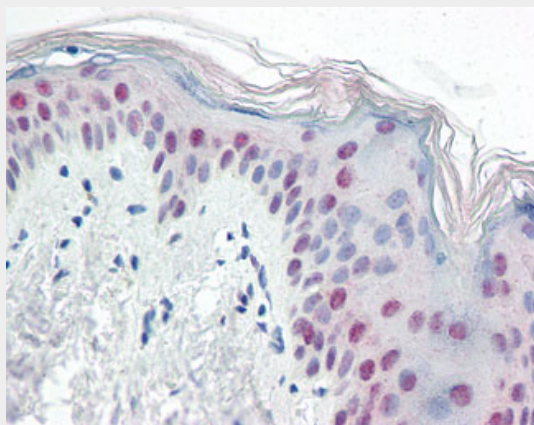
Nucleus.

PTBP1 Antibody (N-Terminus) - 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](#)

PTBP1 Antibody (N-Terminus) - Images



Anti-PTBP1 antibody IHC of human skin.

PTBP1 Antibody (N-Terminus) - Background

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.

PTBP1 Antibody (N-Terminus) - References

Gil A., et al. Genes Dev. 5:1224-1236(1991).

Patton J.G.,et al.Genes Dev. 5:1237-1251(1991).
Ghetti A.,et al.Nucleic Acids Res. 20:3671-3678(1992).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Grimwood J.,et al.Nature 428:529-535(2004).