

Recombinant Human PTBP1

Cat. No. PTBP1-30323TH Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant fragment of Human PTBP1 with a proprietary N-terminal tag; Molecular weight 36.63 kDa inclusive of tag

Species Human

Source Wheat Germ

ProteinLength 100 amino acids

Description

This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA-binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has four repeats of quasi-RNA recognition motif (RRM) domains that bind RNAs. This protein binds to the intronic polypyrimidine tracts that requires pre-mRNA splicing and acts via the protein degradation ubiquitin-proteasome pathway. It may also promote the binding of U2 snRNP to pre-mRNAs. This protein is localized in the nucleoplasm and it is also detected in the perinucleolar structure. Alternatively spliced transcript variants encoding different isoforms have been described.

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Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	KKFKGDSRSAGVPSRVIHIRKLPIDVTEGEVISLGLPFGK VTNLLMLKGKNQAFIEMN TEEAANTMVNYTSTVTPVLRGQ PIYIQFSNHKELKTDSSPNQ
Sequence Similarities	Contains 4 RRM (RNA recognition motif) domains.
GENE INFORMATION	
Gene Name	PTBP1 polypyrimidine tract binding protein 1 [Homo sapiens]
Official Symbol	PTBP1
Synonyms	PTBP1; polypyrimidine tract binding protein 1; polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I) , PTB; polypyrimidine tract-binding protein 1; heterogeneous nuclear ribonucleoprotein I; HNRNP I; HNRPI; pPTB; PTB 1; PTB2; PT
Gene ID	5725
mRNA Refseq	NM_002819

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Protein Refseq	NP_002810
MIM	600693
Uniprot ID	P26599
Chromosome Location	19p13.3
Pathway	Formation and Maturation of mRNA Transcript, organism-specific biosystem; Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; mRNA Processing, organism-specific biosystem; mRNA Splicing, organism-specific biosystem;
Function	RNA binding; RNA binding; nucleotide binding; poly-pyrimidine tract binding; pre-mRNA binding;

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