Recombinant Human PTBP1 protein, His-tagged

Cat. No. PTBP1-8037H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTBP1 aa. (Met1~Ile531) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Ile531
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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Form	Freeze-dried powder
Molecular Mass	61kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 9.2.
Applications	Positive Control; Immunogen; SDS-PAGE; WB
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200μg/mL
Storage Buffer	100mMNaHCO3 , 500mMNaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 100mM NaHCO3, 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

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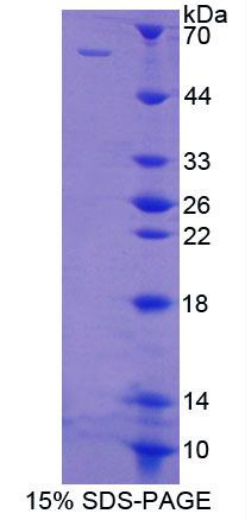
Gene Name	PTBP1 polypyrimidine tract binding protein 1 [Homo sapiens (human)]
Official Symbol	PTBP1
Synonyms	PTB; PTB2; PTB3; PTB4; pPTB; HNRPI; PTB-1; PTB-T; HNRNPI; HNRNP-I; 57 kDa RNA-binding protein PPTB-1; RNA-binding protein;; heterogeneous nuclear ribonucleoprotein I; heterogeneous nuclear ribonucleoprotein polypeptide I; hnRNP I; polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I); polypyrimidine tract-binding protein 1
Gene ID	5725
mRNA Refseq	NM_002819.4
Protein Refseq	NP_002810.1
UniProt ID	P26599
SDS-PAGE	

15% SDS-PAGE

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