

## 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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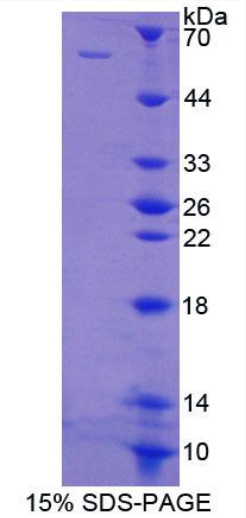
|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b> | 61kDa as determined by SDS-PAGE reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Endotoxin</b>      | <1.0EU per 1ug (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>         | >90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Characteristic</b> | The isoelectric point is 9.2.                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>  | 200µg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b> | 100mMNaHCO <sub>3</sub> , 500mMNaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reconstitution</b> | Reconstitute in 100mM NaHCO <sub>3</sub> , 500mM NaCl (pH8.3) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                         |

## GENE INFORMATION

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|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTBP1 polypyrimidine tract binding protein 1 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | PTBP1                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 5725                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | NM_002819.4                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>  | NP_002810.1                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt ID</b>      | P26599                                                                                                                                                                                                                                                                                                                                                          |
| <b>SDS-PAGE</b>        |                                                                                                                                                                                                                                                                             |