

Recombinant Human PTBP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTBP1-6649H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTBP1 MS Standard C13 and N15-labeled recombinant protein (NP_114367) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	58.9 kDa

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AA Sequence

MDGIVPDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGV
 PSRVIHIRKLPIDVTEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYT
 SVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAALQAVNSVQSGNLALAASAAVD
 AGMAMAGQSPVLRIVENLFYPVTLVDLHQIFSKFGTVLKIITFTKNNQFQALLQYADP
 VSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPS
 LDQTMAAAFASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAAAAGRIA
 IPGLAGAGNSVLLVSNLNPVTPQSLFILFGVYGDVQRVKILFNKKENALVQMADG
 NQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLHRFKK
 PGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFQFFQKDRKMALIQ
 MGSVEEAVQALIDLHNHDLGENHHLRVFSKSTITRTRPLEQKLISEEDLAANDILDY
 KDDDDKV

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Stability

Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration

50 µg/mL as determined by BCA

Storage Buffer

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION
Gene Name

PTBP1 polypyrimidine tract binding protein 1 [Homo sapiens (human)]

Official Symbol

PTBP1

Synonyms

PTBP1; polypyrimidine tract binding protein 1; polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I), PTB; polypyrimidine tract-binding protein

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1; heterogeneous nuclear ribonucleoprotein I; HNRNP I; HNRPI; pPTB; PTB 1; PTB2; PTB3; PTB4; hnRNP I; RNA-binding protein; 57 kDa RNA-binding protein PPTB-1; heterogeneous nuclear ribonucleoprotein polypeptide I; polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I); PTB; PTB-1; PTB-T; HNRNPI; HNRNP-I; MGC8461; MGC10830;

Gene ID [5725](#)

mRNA Refseq [NM_031990](#)

Protein Refseq [NP_114367](#)

MIM [600693](#)

UniProt ID [P26599](#)

SDS-PAGE

