

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

Cat. No. PTBP1-5835H Lot. No. (See product label)

SPECIFICATION

Product Overview PTBP1 MS Standard C13 and N15-labeled recombinant protein (NP_002810) 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 59.6 kDa

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AA Sequence

MDGIVPDIAVGTKRGSDELFCSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGV
 PSRVIHIRKLPIDVTEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYIT
 SVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAALQAVNSVQSGNLALAASAAAVD
 AGMAMAGQSPVLRIVENLFYPVTLDLVHLQIFSKFGTVLKIITFTKNNQFQALLQYADP
 VSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPS
 LDQTMAAAFGAPGIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAA
 AAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFILFGVYGDVQRVKILFNKKENAL
 VQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNS
 PLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKD
 RKMALIQMGSVVEEAVQALIDLHNHDLGENHHLRVSFSTITRTRPLEQKLISEEDLA
 ANDILDYKDDDDKV

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](#)

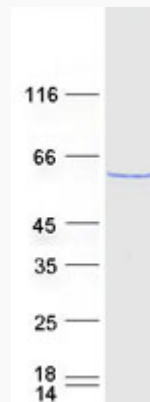
mRNA Refseq [NM_002819](#)

Protein Refseq [NP_002810](#)

MIM [600693](#)

UniProt ID [P26599](#)

SDS-PAGE



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