

Recombinant Human PTBP1 Protein (1 a.a.-557 a.a.), N-GST-tagged

Cat. No. PTBP1-14H Lot. No. (See product label)

SPECIFICATION

Product Overview

Human PTBP1 full-length ORF (NP_002810.1, 1 a.a.-557 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ (in vitro).

Species

Human

Source

Wheat Germ

ProteinLength

1-557

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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	86 kDa
AA Sequence	<p>MDGIVPDIAVGTKRGSDELSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGV PSRVIHIRKLPIDVTEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYT SVTPVLRGQPIYIQFSNHKELKTDSSPNQARAQAALQAVNSVQSGNLALAASAAAVD AGMAMAGQSPVLRRIIVENLFYPVTLDVLHQIFSKFGTVLKIITFTKNNQFQALLQYADP VSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDYTRPDLPSGDSQPS LDQTMAAAFGAPGIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAA AAAGRIAIPGLAGAGNSVLLVSNLNPVTPQSLFILFGVYGDVQRVKILFNKKENAL VQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNS PLHRFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSSNGGVVKGFKFFQKD RKMALIQMGSVVEEAVQALIDLHNHDLGENHHLRVSFSKSTI</p>
Applications	<p>Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array</p>
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	PTBP1 polypyrimidine tract binding protein 1 [Homo sapiens (human)]
Official Symbol	PTBP1
Synonyms	PTBP1; polypyrimidine tract binding protein 1; PTB; PTB2; PTB3; PTB4; pPTB;

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HNRPI; PTB-1; PTB-T; HNRNPI; HNRNP-I; polypyrimidine tract-binding protein 1; 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)

Gene ID [5725](#)

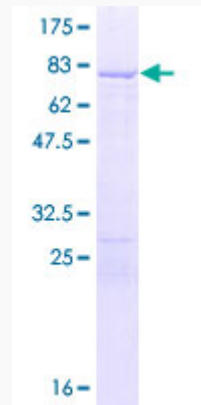
mRNA Refseq [NM_002819](#)

Protein Refseq [NP_002810](#)

MIM [600693](#)

UniProt ID [P26599](#)

Quality Control Testing



12.5% SDS-PAGE Stained with Coomassie Blue.

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