

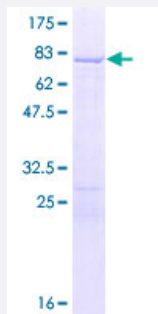
Full-Length

PTBP1 (Human) Recombinant Protein (P02)

Catalog # H00005725-P02

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human PTBP1 full-length ORF (NP_002810.1, 1 a.a. - 557 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDGMVDIAVGTKRGSDELFSTCVTNGPFIMSSNSASAANGNDSKKFKGDSRSAGVPSRVIHIRKL
PIDVTEGEVISLGLPFGKVTNLLMLKGKNQAFIEMNTEEAANTMVNYTSTVTPVLRGQPMQFSNHK
ELKTDSSPNQARAQAALQAVNSVQSGNLALAASAAAVDAGMAMAGQSPVLRIVENLFYPVTLD
VLHQIFSKFGTVLKIITFTKNNQFQALLQYADPVSAQHAKLSLDGQNIYNACCTLRIDFSKLTSLNVK
YNNDKSRDYTRPDLPSGDSQPSLDQTMAAAFGAPGIISASPYAGAGFPPTFAIPQAAGLSVPNVH
GALAPLAIPSAAAAAAAAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFILFGVYGDVQQRVKILFN
KKENALVQMADGNQAQLAMSHLNGHKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNSPLH
RFKKPGSKNFQNIFFPSATLHLSNIPPSVSEEDLKVLFSNNGGVVKGFKFFQKDRKMALIQMGSV
EEAVQALIDLHNHDLGENHHLRVFSKSTI

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

86

Interspecies Antigen Sequence

Mouse (97); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTBP1

Entrez GeneID	5725
GeneBank Accession#	NM_002819.3
Protein Accession#	NP_002810.1
Gene Name	PTBP1
Gene Alias	HNRNP-I, HNRNP1, HNRPI, MGC10830, MGC8461, PTB, PTB-1, PTB-T, PTB2, PTB3, PTB4, p PTB
Gene Description	polypyrimidine tract binding protein 1
Omim ID	600693
Gene Ontology	Hyperlink

Gene Summary

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 perinuclear structure. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq]

Other Designations

RNA-binding protein|heterogeneous nuclear ribonucleoprotein|heterogeneous nuclear ribonucleoprotein polypeptide|polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein)|polypyrimidine tract-binding protein 1

Disease

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