

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	MDGIVPDIAVGTKRGSDelfstCVtNGPFIMSSNSASAANGNDskKfKGDSRSAGV PSRVIHIRKLPIDVTEGEVISLGLPFgKVTnLLMLKGKNQAFIEMNTEEAANTMVNYT SVTPVLRGQPIYIQFSNHkelKTDSSPNQARAQAALQAVNSVQSGNLALAASAAAVD AGMAMAGQSPVLRiVENLFYPVTLdVLHQIFSKFGTVLKiITFTKNNQFQALLQYADP VSAQHAKLSLDGQNIYNACCTLRIDFSKLtSLNVKYnNDKSRDYTRPDLPsgDSQPS LDQTMAAAFGAPGIISASPYAGAGFPPTFAIPQAAGLSVPNVHGALAPLAIPSAAAAA AAAGRIAIPGLAGAGNSVLLVSNLNPERVTPQSLFiLFGVYGDVQRVKILFNKKENAL VQMADGNQAQLAMSHLNghKLHGKPIRITLSKHQNVQLPREGQEDQGLTKDYGNS PLHRfKKPGSKNFQNIFFPSATLHLsNIPPSVSEEDLKVLfSSNGGVVKGFkFFQKD RKMALIQMGsVEEAVQALIDLHNHDLGENHHLRVsFSKSTI
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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

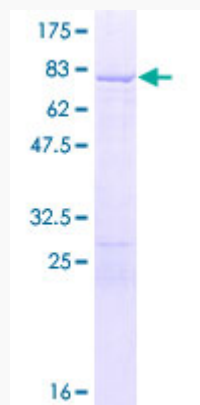
mRNA Refseq NM_002819

Protein Refseq NP_002810

MIM 600693

UniProt ID P26599

**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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