

Rabbit PTBP1 Polyclonal Antibody | anti-PTBP1 antibody

PTBP1 Antibody

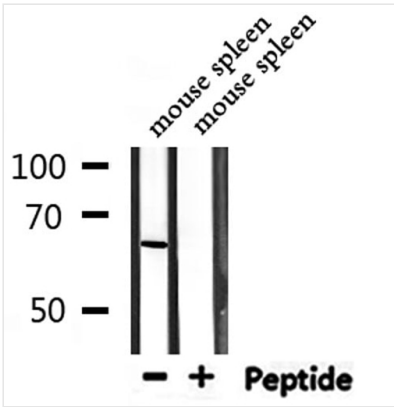
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326409	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

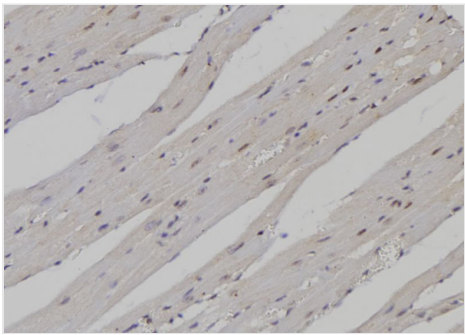
PTBP1; Polyclonal Antibody; PTBP1 Antibody; 57 kDa RNA binding protein PPTB 1; 57 kDa RNA-binding protein PPTB-1; Heterogeneous nuclear ribonucleoprotein I; Heterogeneous Nuclear Ribonucleoprotein Polypeptide I; hnRNP I; HNRNP-I; HNRNPI; HNRPI; MGC10830; MGC8461; Polypyrimidine tract binding protein (heterogeneous nuclear ribonucleoprotein I); Polypyrimidine Tract Binding Protein 1; Polypyrimidine tract binding protein; Polypyrimidine tract-binding protein 1; pPTB; PTB 1; PTB 2; PTB 3; PTB 4; PTB; PTB T; PTB1; PTB2; PTB3; PTB4; PTBP 1; PTBP1_HUMAN; PTBT; RNA Binding Protein; anti-PTBP1 antibody

PRODUCT SPECIFICATIONS

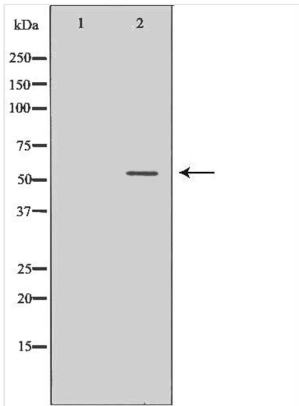
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PTBP1 antibody detects endogenous levels of total PTBP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	557
Applicable Applications for anti-PTBP1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PTBP1
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from mouse spleen, using PTBP1 Antibody.



IHC (Immunohistochemistry)
AAA326409 at 1/100 staining Mouse heart tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of Hepg2 whole cell lysates, using PTBP1 Antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PTBP1 antibody

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.

Function: Plays a role in pre-mRNA splicing and in the regulation of alternative splicing events. Activates exon skipping of its own pre-mRNA during muscle cell differentiation. Binds to the polypyrimidine tract of introns. May promote RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA. May promote the binding of U2 snRNP to pre-mRNA. Cooperates with RAVER1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA. Represses the splicing of MAPT/Tau exon 10 (PubMed:15009664). In case of infection by picornaviruses, binds to the viral internal ribosome entry site (IRES) and stimulates the IRES-mediated translation (PubMed:21518806).

Subunit Structure: Monomer. Part of a ternary complex containing KHSRP, PTBP1, PTBP2 and HNRPH1. Interacts with RAVER1 and SFPQ.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506243
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NCBI GeneID	5725
NCBI Accession #	NP_002810.1
NCBI GenBank Nucleotide #	NM_002819.4
UniProt Accession #	P26599; Q9BUQ0
Molecular Weight	Observed: 57 kDa Predicted: 58 kDa
NCBI Official Full Name	polypyrimidine tract-binding protein 1 isoform a
NCBI Official Synonym Full Names	polypyrimidine tract binding protein 1
NCBI Official Symbol	PTBP1
NCBI Official Synonym Symbols	PTB; PTB2; PTB3; PTB4; pPTB; HNRPI; PTB-1; PTB-T; HNRNPI; HNRNP-I
NCBI Protein Information	polypyrimidine tract-binding protein 1
UniProt Protein Name	Polypyrimidine tract-binding protein 1
UniProt Gene Name	PTBP1
UniProt Synonym Gene Names	PTB; PTB; hnRNP I

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ptbp1-antibody-immunohistochemistry-western-blot-elisa/326409>