ARG63356
anti-PTBP1 / PTB antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes PTBP1 / PTB
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Cow, Dog, Pig
Tested Application	IHC-P, WB
Specificity	This antibody is expected to recognise all 4 reported isoforms (represented by NP_002810.1; NP_114367.1; NP_114368.1; NP_787041.1).
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	PTBP1 / PTB
Species	Human
Immunogen	DGIVPDIAVGTKR-C
Conjugation	Un-conjugated
Alternate Names	PTB-1; PTB-T; HNRPI; PTB; PTB3; HNRNPI; Heterogeneous nuclear ribonucleoprotein I; hnRNP I; HNRNP-I; Polypyrimidine tract-binding protein 1; PTB4; PTB2; pPTB; 57 kDa RNA-binding protein PPTB-1

Application Instructions

Application table

Application	Dilution
IHC-P	2 - 4 µg/ml
WB	0.01 - 0.3 µg/ml

Application Note

WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Tris/EDTA buffer (pH 9.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

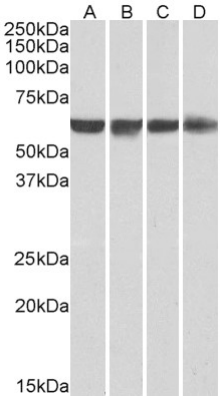
Bioinformation

Database links	GeneID: 5725 Human Swiss-port # P26599 Human
Gene Symbol	PTBP1
Gene Full Name	polypyrimidine tract binding protein 1
Background	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. [provided by RefSeq, Jul 2008]
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. [UniProt]
Research Area	Gene Regulation antibody
Calculated Mw	57 kDa

Images

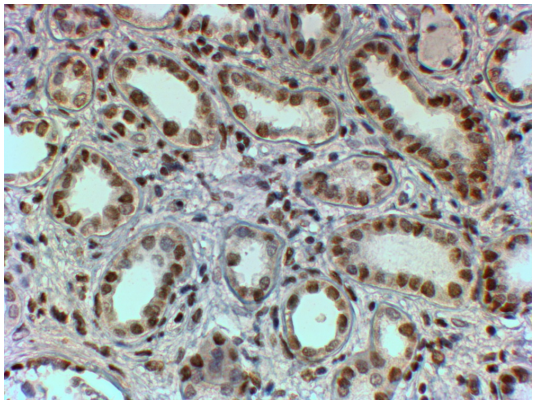
ARG63356 anti-PTBP1 / PTB antibody WB image

Western Blot: Human Ovary lysate (35 µg protein in RIPA buffer) stained with ARG63356 anti-PTBP1 / PTB antibody at 0.1 µg/ml dilution.



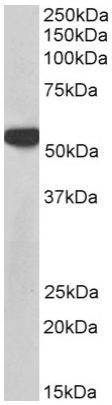
ARG63356 anti-PTBP1 / PTB antibody WB image

Western Blot: HeLa (A), HepG2 (B), Jurkat (C) and HEK293 (D) nuclear lysates (35 µg protein in RIPA buffer) stained with ARG63356 anti-PTBP1 / PTB antibody at 0.01 µg/ml dilution.



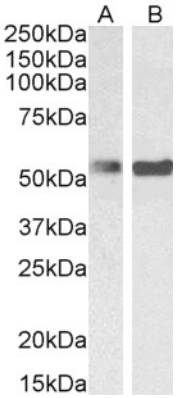
ARG63356 anti-PTBP1 / PTB antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue. Antigen Retrieval: Steam tissue section in Tris/EDTA buffer (pH 9.0). The tissue section was stained with ARG63356 anti-PTBP1 / PTB antibody at 2 µg/ml dilution followed by HRP-staining.



ARG63356 anti-PTBP1 / PTB antibody WB image

Western blot: 35 µg of NIH/3T3 cell lysate (in RIPA buffer) stained with ARG63356 anti-PTBP1 / PTB antibody at 0.03 µg/ml dilution and incubated at RT for 1 hour.



ARG63356 anti-PTBP1 / PTB antibody WB image

Western blot: 35 µg of Mouse ovary (A) and Rat ovary (B) lysates (in RIPA buffer) stained with ARG63356 anti-PTBP1 / PTB antibody at 0.1-0.3 µg/ml dilution and incubated at RT for 1 hour.