

PTBP2 Rabbit pAb

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Catalog # AP54674

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9UKA9
Reactivity	Mouse, Rat
Predicted	Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57491
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PTBP2
Epitope Specificity	21-120/531
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nuclear
SIMILARITY	Contains 4 RRM (RNA recognition motif) domains.
SUBUNIT	Monomer. Interacts with NOVA1; the interaction is direct. Interacts with NOVA2; the interaction is direct (By similarity). Identified in a mRNP complex, at least composed of DHX9, DDX3X, ELAVL1, HNRNPU, IGF2BP1, ILF3, PABPC1, PCBP2, PTBP2, STAU1, STAU2, SYNCRIP and YBX1. Part of a ternary complex containing KHSRP and HNRPH1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	PTBP-2 is a member of the polypyrimidine tract binding family of proteins. Predominantly expressed in brain, but also found in heart and skeletal muscle, PTBP-2 localizes to the nucleus and contains four RRM (RNA recognition motif) domains. PTBP-2 functions as an RNA-binding protein associated in a complex that is involved in the regulation of exon splicing and the stabilization of mRNAs in the cytoplasm. Six isoforms exist for PTBP-2 due to alternative splicing events. Isoforms 1 and 2 (also known as nPTB1 and nPTB2/PTBPLP-L, respectively) are neuronal-specific. Isoforms 3 and 4 (also known as nPTB3/PTBPLP-L and nPTB4, respectively) are found in non-neuronal tissues, as are isoforms 5 and 6 (also known as nPTB5/nPTB7/PTBPLP-S and nPTB6/nPTB8/PTBPLP-S, respectively). The existence of various isoforms may function to modulate the RNA-binding properties of PTBP-2

Additional Information

Gene ID	58155
Other Names	Polypyrimidine tract-binding protein 2, Neural polypyrimidine tract-binding

protein, Neurally-enriched homolog of PTB, PTB-like protein, PTBP2 ([HGNC:17662](#)), NPTB, PTB, PTBLP

Target/Specificity	Mainly expressed in brain although also detected in other tissues like heart and skeletal muscle. Isoform 1 and isoform 2 are specifically expressed in neuronal tissues. Isoform 3 and isoform 4 are expressed in non-neuronal tissues. Isoform 5 and isoform 6 are truncated forms expressed in non-neuronal tissues.
Dilution	WB=1:1000-5000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

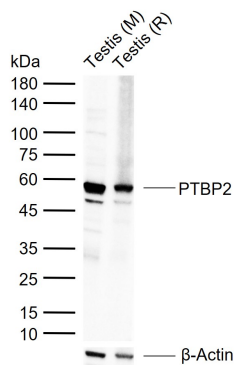
Name	PTBP2 (HGNC:17662)
Synonyms	NPTB, PTB, PTBLP
Function	RNA-binding protein which binds to intronic polypyrimidine tracts and mediates negative regulation of exons splicing. May antagonize in a tissue-specific manner the ability of NOVA1 to activate exon selection. In addition to its function in pre-mRNA splicing, plays also a role in the regulation of translation.
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q91Z31}.
Tissue Location	Mainly expressed in brain although also detected in other tissues like heart and skeletal muscle. Isoform 1 and isoform 2 are specifically expressed in neuronal tissues. Isoform 3 and isoform 4 are expressed in non-neuronal tissues. Isoform 5 and isoform 6 are truncated forms expressed in non-neuronal tissues

Background

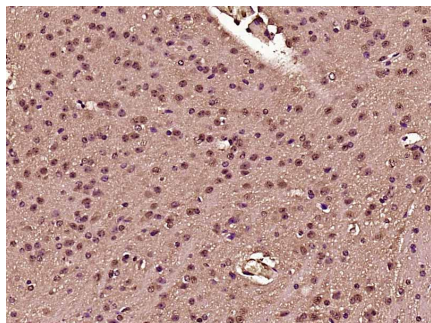
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Images

Sample:
Lane 1: Mouse Testis tissue lysates
Lane 2: Rat Testis tissue lysates
Primary: Anti-PTBP2 (AP54674) at 1/3000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution



Predicted band size: 57 kDa
Observed band size: 57 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PTBP2) Polyclonal Antibody, Unconjugated (AP54674) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.