



Rabbit Anti-PTBP2 antibody

SL11928R

Product Name PTBP2**Chinese Name** 核糖核酸 Binding protein2 抗体**Alias** brPTB; FLJ34897; MIBP; Neural polypyrimidine tract binding protein; Neurally enriched homolog of PTB; Polypyrimidine tract binding protein 2; PTB; PTB like; PTB like protein; PTBLP; PTBP 2; PTBP-2; Splicing regulator; PTBP2_HUMAN.**Research Area** Cell biology Neurobiology Signal transduction Epigenetics**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** Mouse,Rat(predicted:Human,Dog,Cow,Horse,Sheep)**Applications** WB=1:1000-5000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.**Theoretical molecular weight** 57kDa**Cellular localization** The nucleus**Form** Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human PTBP2: 21-120/531**Lsotype** IgG**Purification** affinity purified by Protein A**Buffer Solution** Mouse,Rat(predicted:Human,Dog,Cow,Horse,Sheep)1M TBS(pH7.4) with 1% BSA,
Mouse,Rat(predicted:Human,Dog,Cow,Horse,Sheep)3% Proclin300 and 50% Glycerol.**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.**Attention** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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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

Function:

PTBP2 is an RNA-binding protein which binds to intronic polypyrimidine tracts. It binds to the CUCUCU splicing repressor element of the downstream control sequence (DCS) and mediates negative regulation of exons splicing. It may also have a role in the regulation of translation. PTBP2 is thought to be involved in the switch to neuronal specific alternative splicing patterns during neuronal differentiation.

Product Detail

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.

Subcellular Location:

Nuclear

Tissue 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.

Similarity:

Contains 4 RRM (RNA recognition motif) domains.

SWISS:

Q9UKA9

Gene ID:

58155

Database links:

[Entrez Gene: 58155](#) Human

[Entrez Gene: 56195](#) Mouse

[Entrez Gene: 310820](#) Rat

[Omim: 608449](#) Human

[SwissProt: Q9UKA9](#) Human

[SwissProt: Q91Z31](#) Mouse

[SwissProt: Q66H20](#) Rat

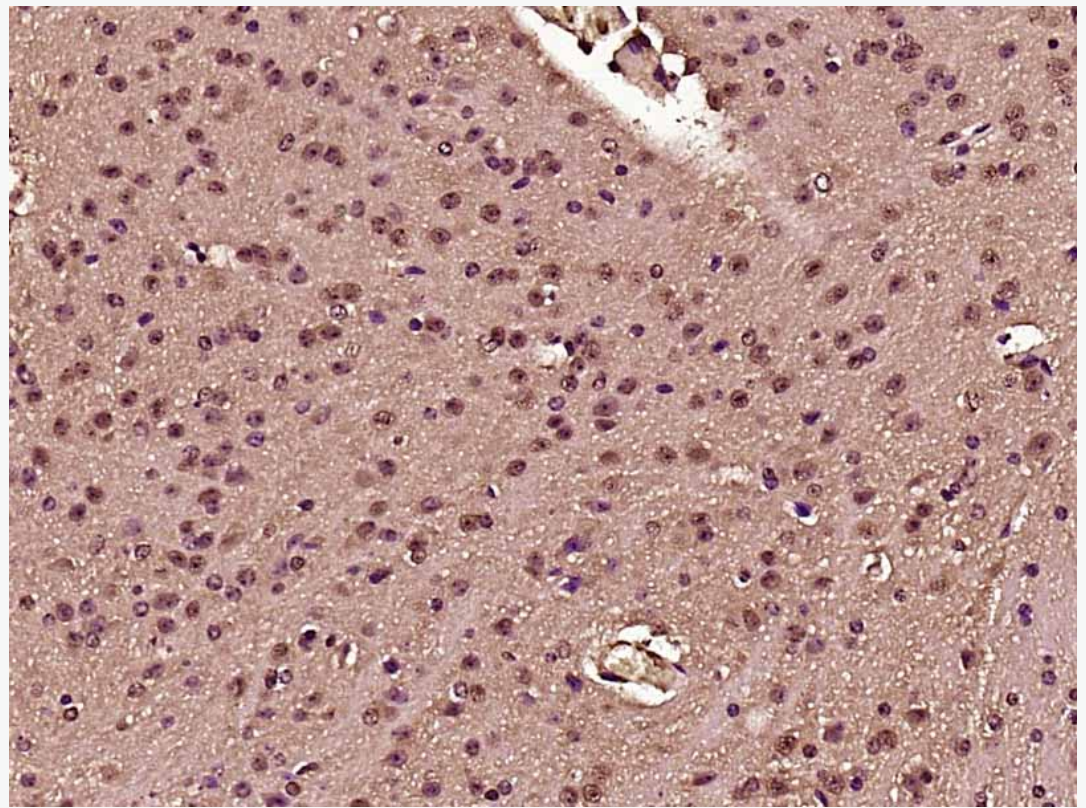
[Unigene: 269895](#) Human

[Unigene: 596061](#) Human

[Unigene: 29966](#) Mouse

[Unigene: 64916](#) Rat

**Product
Picture**



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 (SL11928R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.