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## PTBP1 Antibody

**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	57, 59	Rabbit	#P26599-1	5725

### Product Usage Information

#### Application

Western Blotting

#### Dilution

1:1000

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

### Specificity/Sensitivity

PTBP1 Antibody recognizes endogenous levels of total PTBP1 protein.

### Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the human PTBP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

### Background

PTBP1/hnRNP I belongs to the family of heterogeneous nuclear ribonucleoproteins (hnRNPs) that exert diverse functions in multiple aspects of RNA metabolism (1). PTBP1 is critical for regulating alternative splicing, IRES-mediated translation initiation, and increased stability of a variety of transcripts (2-4). Recently, PTBP1 was found to interact with PSMA3 from the 20S proteasome and is therefore implicated in the process of protein degradation (5,6). PTBP1 is ubiquitously expressed and shuttles between the nucleus and cytoplasm. Cellular localization of PTBP1 and its interactions with various factors determines the diversity of PTBP1 function (4).

### Background References

1. Chen, M. and Manley, J.L. (2009) *Nat Rev Mol Cell Biol* 10, 741-54.
2. Amir-Ahmady, B. et al. (2005) *RNA* 11, 699-716.
3. Gama-Carvalho, M. et al. (2006) *Genome Biol* 7, R113.
4. Sawicka, K. et al. (2008) *Biochem Soc Trans* 36, 641-7.
5. Lee, K.A. et al. (2011) *J Biol Chem* 286, 41530-8.
6. Fedorova, O.A. et al. (2011) *Biochem Biophys Res Commun* 416, 258-65.

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat **Mk:** Monkey

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