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PARN (A42) 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	78	Rabbit	#O95453	5073

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

PARN (A42) Antibody detects endogenous levels of total PARN protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence surrounding Ala42 of human PARN. Antibodies are purified by Protein A and peptide affinity chromatography.

Background

Cellular levels of mRNAs are controlled by mRNA stability, the rate of synthesis and the rate of degradation. The presence and length of the poly(A) tail has been associated with mRNA stability (1). Exonucleolytic shortening of the poly(A) tail is the process that initiates the decay of many eukaryotic mRNAs (2). Poly(A)-specific ribonuclease (PARN) is the enzyme responsible for initiation of deadenylation and exonucleolytic shortening of mRNA transcripts. Through an evolutionarily conserved mechanism, PARN also translationally silences selective mRNAs during early embryonic development (3). PARN is constitutively expressed in most mammalian tissues and plays a critical role in the post-transcriptional control of gene expression (4).

Background References

- Morales, J. et al. (1997) *J Biol Chem* 272, 6607-13.
- Wilson, T. and Treisman, R. (1988) *Nature* 336, 396-9.
- Sachs, A.B. et al. (1997) *Cell* 89, 831-8.
- Fritz, D.T. et al. (2004) *Cell Biochem Biophys* 41, 265-78.

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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