



Rabbit Anti-hnRNP D/AUF1 antibody

SL17331R

Product Name:	hnRNP D/AUF1
Chinese Name:	异质核核糖核蛋白AUF1抗体
Alias:	ARE binding protein AUF1 type A; AU-rich element RNA-binding protein 1; AUF; AUF1; AUF1A; Heterogeneous nuclear ribonucleoprotein D0; hnRNP D; hnRNP D0; hnRNPD; hnRNPD0; HNRPD; HNRPD_HUMAN; P37.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human hnRNP D/AUF1:51-150/355
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are nucleic acid 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 two repeats of quasi-RRM domains that bind to RNAs. It localizes to both the nucleus and the cytoplasm. This protein is implicated in the regulation of mRNA stability. Alternative splicing of this gene results in four transcript variants. [provided by RefSeq, Jul 2008]

Function:

Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions as a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain.

Subcellular Location:

Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes.

Post-translational modifications:

Arg-345 is dimethylated, probably to asymmetric dimethylarginine. Methylated by PRMT1, in an insulin-dependent manner. The PRMT1-mediated methylation regulates tyrosine phosphorylation.

Similarity:

Contains 2 RRM (RNA recognition motif) domains.

SWISS:

Q14103

Gene ID:

3184

Database links:

[Entrez Gene: 3184](#) Human

[Entrez Gene: 11991](#) Mouse

[Entrez Gene: 79256](#) Rat

[GenBank: NP_112738.1](#) Human

[Omim: 601324](#) Human

[SwissProt: Q14103](#) Human

[SwissProt: Q60668](#) Mouse

[SwissProt: Q9JJ54](#) Rat

[Unigene: 480073](#) Human

[Unigene: 150231](#) Mouse

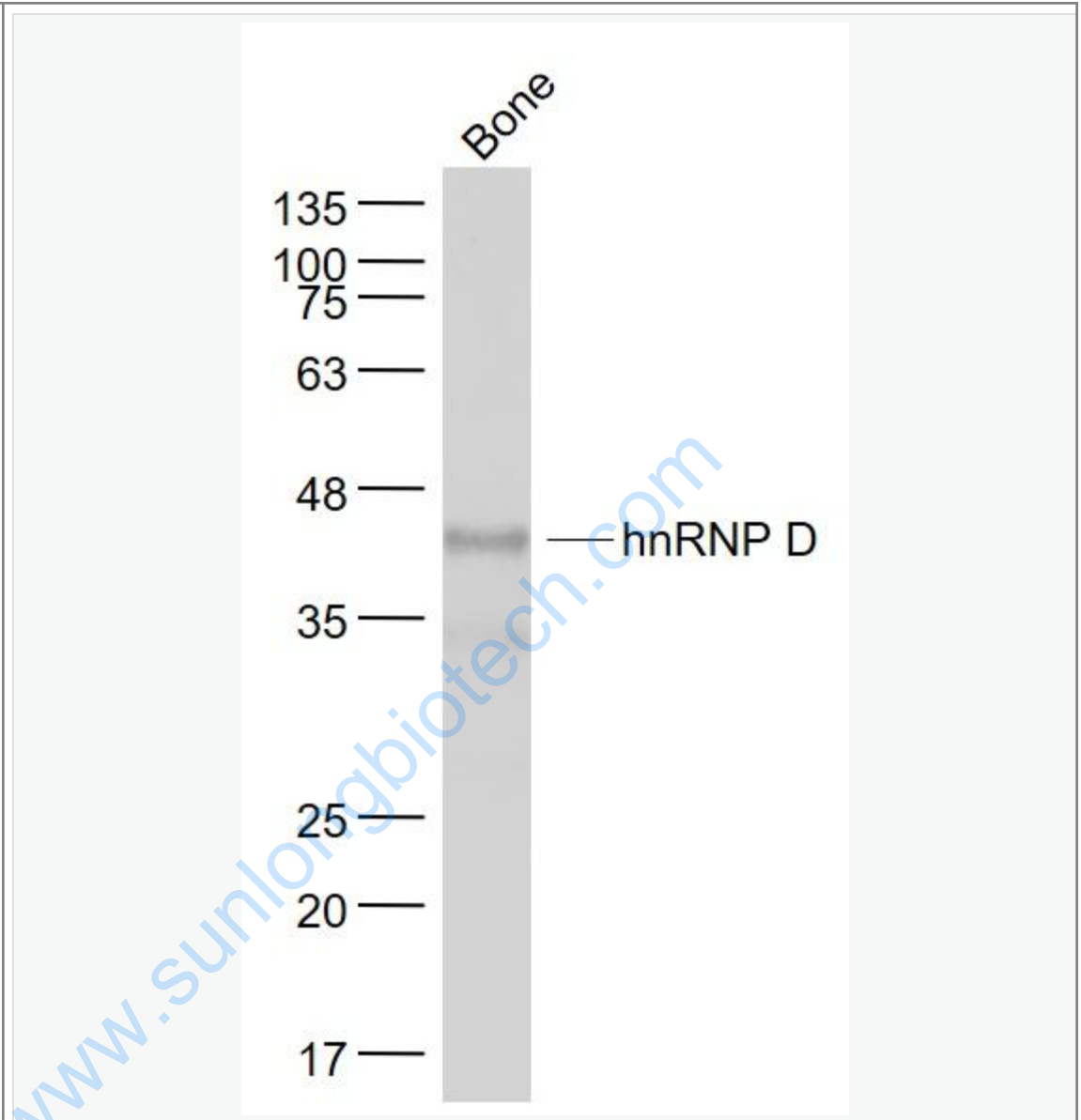
[Unigene: 94022](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Picture:



Sample:

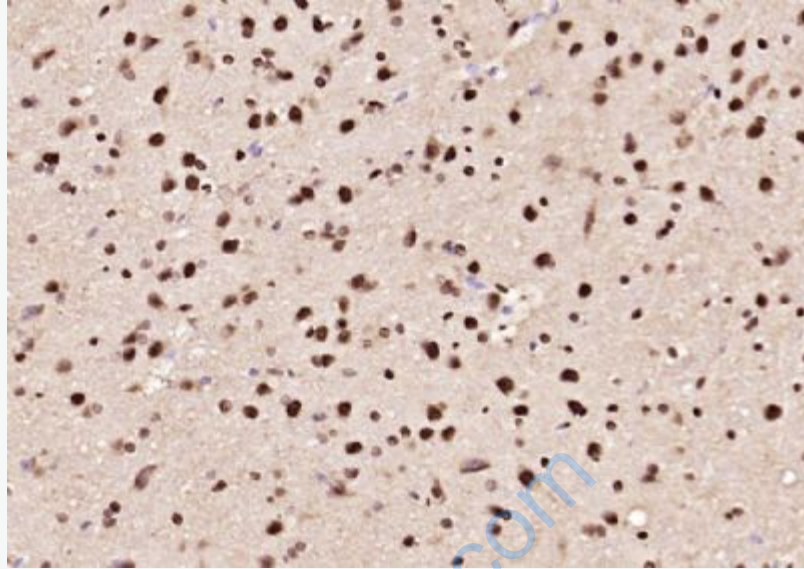
Bone (Mouse) Lysate at 40 ug

Primary: Anti- hnRNP D/AUF1 (SL17331R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 38 kD

Observed band size: 40 kD



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 (hnRNP D AUF1) Polyclonal Antibody, Unconjugated (SL17331R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.