

Anti-hnRPD (Ab-83) HNRNPD Antibody

Catalog Number: A02895

About HNRNPD

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. May play a role in the regulation of the rhythmic expression of circadian clock core genes. Directly binds to the 3'UTR of CRY1 mRNA and induces CRY1 rhythmic translation. May also be involved in the regulation of PER2 translation.

Kajita Y., J. Biol. Chem. 270:22167-22175(1995).

Dempsey L.A., Genomics 49:378-384(1998).

Tolnay M., Biochem. J. 338:417-425(1999).

Grosset C., Cell 103:29-40(2000)

Overview

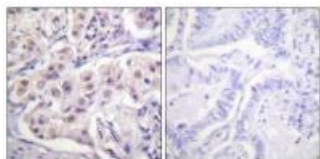
Product Name	Anti-hnRPD (Ab-83) HNRNPD Antibody
Reactive Species	Human
Description	Boster Bio Anti-hnRPD (Ab-83) HNRNPD Antibody (Catalog # A02895). Tested in WB, IHC, IF applications. This antibody reacts with Human.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q14103

Technical Details

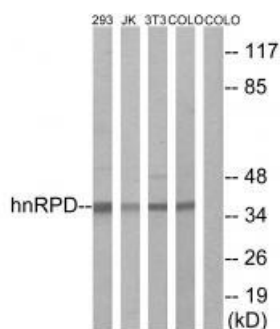
Immunogen	Synthesized non-phosphopeptide derived from human hnRPD around the phosphorylation site of serine 83 (N-S-S(p)-P-R).
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Predicted Reactive Species	Boar, Bovine, Canine, Golden Hamster
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Western blotting: 1:500~1:3000</p> <p>Immunohistochemistry: 1:50~1:100</p> <p>Immunofluorescence: 1:100~1:500</p>

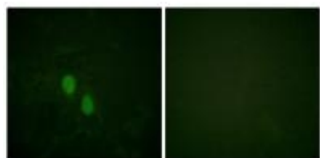
Anti-hnRPD (Ab-83) HNRNPD Antibody (A02895) Images



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue using hnRPD (Ab-83) antibody A02895.



Western blot analysis of extracts from 293, JK, 3T3 and colo cells, using hnRPD (Ab-83) antibody A02895.



Immunofluorescence analysis of HeLa cells, using hnRPD (Ab-83) antibody A02895.

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