



hnRNP D0 (phospho Ser83) Polyclonal Antibody

Catalog No	YP-Ab-01399
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	HNRNPD
Immunogen	The antiserum was produced against synthesized peptide derived from human hnRPD around the phosphorylation site of Ser83. AA range:49-98
Specificity	Phospho-hnRNP D0 (S83) Polyclonal Antibody detects endogenous levels of hnRNP D0 protein only when phosphorylated at S83.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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;hnRNP D0;HNRPD;HNRPD_HUMAN;P37
Observed Band	38kD
Calculated Molecular Weight	38kD
Cell Pathway	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Component of ribonucleosomes. Cytoplasmic localization oscillates diurnally.
Tissue Specificity	Blood,Cervix carcinoma,Epithelium,Liver,Lung,Ovarian carcin
Function	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 mediate

Background

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],

matters needing attention

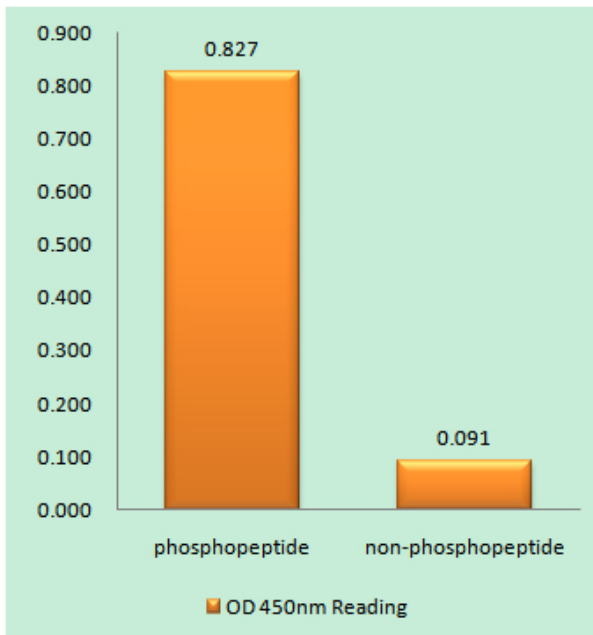
Avoid repeated freezing and thawing!

Usage suggestions

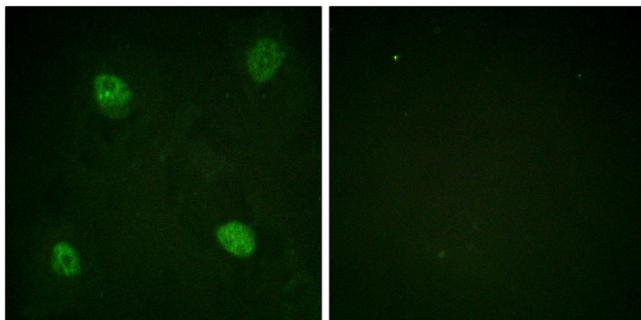
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



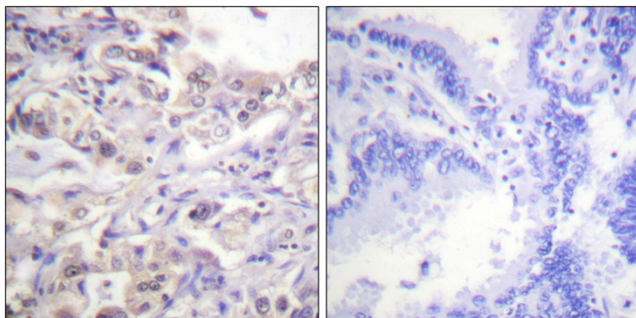
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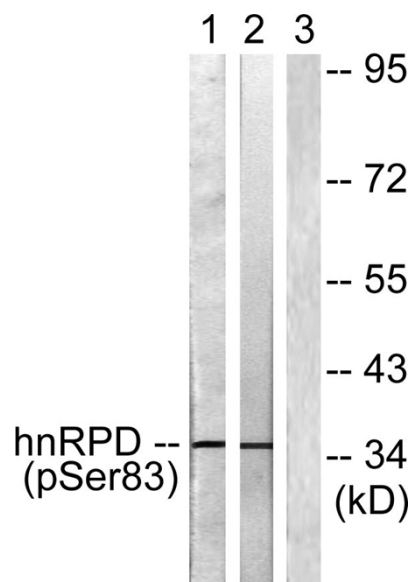
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using hnRPD (Phospho-Ser83) Antibody



Immunofluorescence analysis of HeLa cells, using hnRPD (Phospho-Ser83) Antibody. The picture on the right is blocked with the phosphopeptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using hnRPD (Phospho-Ser83) Antibody. The picture on the right is blocked with the phosphopeptide.



Western blot analysis of lysates from HUVEC and 293 cells, using hnRPD (Phospho-Ser83) Antibody. The lane on the right is blocked with the phospho peptide.