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SNRPA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14764c

Product Information

Application	WB, IHC-P, E
Primary Accession	P09012
Other Accession	Q06AA4, Q2KIR1, NP_004587.1
Reactivity	Human, Mouse
Predicted	Bovine, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB35016
Calculated MW	31280
Antigen Region	83-111

Additional Information

Gene ID	6626
Other Names	U1 small nuclear ribonucleoprotein A, U1 snRNP A, U1-A, U1A, SNRPA
Target/Specificity	This SNRPA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 83-111 amino acids from the Central region of human SNRPA.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SNRPA Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SNRPA
Function	Component of the spliceosomal U1 snRNP, which is essential for recognition of the pre-mRNA 5' splice-site and the subsequent assembly of the spliceosome. U1 snRNP is the first snRNP to interact with pre-mRNA. This

interaction is required for the subsequent binding of U2 snRNP and the U4/U6/U5 tri-snRNP. SNRPA binds stem loop II of U1 snRNA. In a snRNP-free form (SF-A) may be involved in coupled pre-mRNA splicing and polyadenylation process. May bind preferentially to the 5'-UGCAC-3' motif on RNAs.

Cellular Location Nucleus.

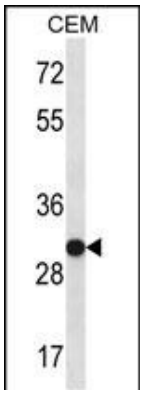
Background

The protein encoded by this gene associates with stem loop II of the U1 small nuclear ribonucleoprotein, which binds the 5' splice site of precursor mRNAs and is required for splicing. The encoded protein autoregulates itself by polyadenylation inhibition of its own pre-mRNA via dimerization and has been implicated in the coupling of splicing and polyadenylation.

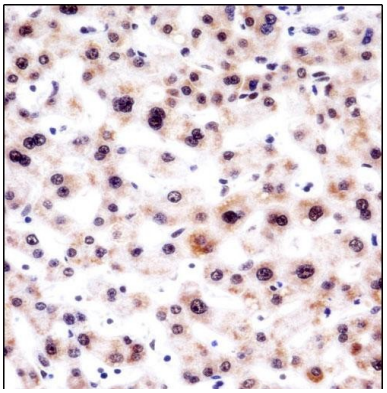
References

Guan, F., et al. RNA 13(12):2129-2140(2007)
Hall-Pogar, T., et al. RNA 13(7):1103-1115(2007)
Shajani, Z., et al. J. Mol. Biol. 349(4):699-715(2005)
Andersen, J.S., et al. Nature 433(7021):77-83(2005)
Jessen, T.H., et al. EMBO J. 10(11):3447-3456(1991)

Images



SNRPA Antibody (Center) (Cat. #AP14764c) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the SNRPA antibody detected the SNRPA protein (arrow).



SNRPA Antibody (Center) (AP14764c)immunohistochemistry analysis in formalin fixed and paraffin embedded human liver tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SNRPA Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.