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SNRPA Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5557

Product Information

Application	IHC-P, WB
Primary Accession	P09012
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31280
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	6626
Antigen Region	83-111
Other Names	U1 small nuclear ribonucleoprotein A, U1 snRNP A, U1-A, U1A, SNRPA
Dilution	IHC-P~~1:100~500 WB~~1:1000
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.
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.

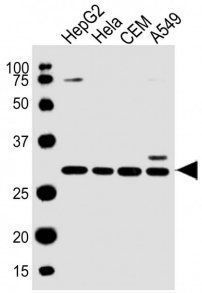
Background

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.

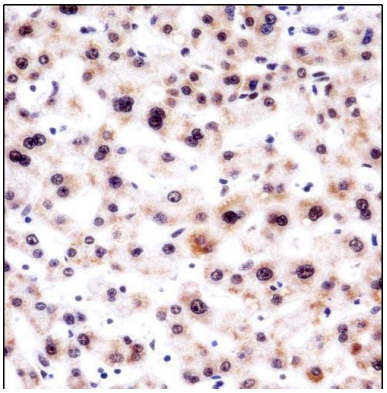
References

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



All lanes : Anti-SNRPA Antibody (Center) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: CEM whole cell lysate Lane 4: A549 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



SNRPA Antibody (Center) (AW5557)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.

Citations

- U1 snRNP proteins promote proximal alternative polyadenylation sites by directly interacting with 3' end processing core factors

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.