

## **SNRPA Antibody (Center)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5557

### Specification

# SNRPA Antibody (Center) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW Isotype Antigen Source WB, IHC-P,E <u>P09012</u> Human Rabbit Polyclonal H=31;M=32 KDa Rabbit IgG HUMAN

## SNRPA Antibody (Center) - Additional Information

Gene ID 6626

Antigen Region 83-111

**Other Names** U1 small nuclear ribonucleoprotein A, U1 snRNP A, U1-A, U1A, SNRPA

**Dilution** WB~~1:1000 IHC-P~~1:10~50

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.

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.

## SNRPA Antibody (Center) - 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.

## **SNRPA Antibody (Center) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

### **SNRPA Antibody (Center) - 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.

# SNRPA Antibody (Center) - 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.

## **SNRPA Antibody (Center) - 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) SNRPA Antibody (Center) - Citations

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