# Human Small Nuclear Ribonucleoprotein Polypeptide A (snRNP A)

Origin:	Recombinant	Cat. No.:	41510
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	Spodoptera frugiperda Sf9	Purity:	>90%
<b>Other Names:</b>	U1snRNPA, RNPA, RNP-A	Species:	Human

### Description

Expressed in insect Sf9 cells with total 306 AA. Mw: 34.2 KDa (calculated). N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA (highlighted). **Recombinant antigen for research use or manufacturing only.** 

### **Introduction to the Molecule**

Small nuclear ribonucleoprotein complexes (abbreviated as U-snRNP) are essential for splicing of precursor mRNA molecules. U1-snRNP is the most abundant RNP particle in the nucleus and consists of one small uridylate-rich RNA (U1 RNA) complexed with several proteins, and the three 68/70 kDa (snRNP68/70), A polypeptides (snRNPA) and C polypeptides (snRNPC) are unique to the U1-snRNP particle.

Autoantibodies to U1-snRNP are present in 95% of patients with Mixed Connective Tissue Disease (MCTD) and 30% of patients with SLE.

### **Immunological Function**

As an autoantigen, RNP-A binds with IgG-type human auto-antibodies.

#### **Amino Acid Sequence**

**MSYYHHHHHHDYDIPTTENLYFQGA**AVPETRPNHTIYINNLNEKIKKDELKKSLYAIFSQFG QILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGFPFYDKPMRIQYAKTDSDIIAKMKGTFVE RDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQAPRIMHHMPGQPPYMP PPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLSMLFNQ FPGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK

#### **Applications**

Standard ELISA test, line/dot assay and microarray assay with positive/negative sera panels.

### **Formulation**

Liquid in storage buffer (50mM Tris, 300-500mM NaCl, 10% Glycerol, Protease inhibitor, pH8.0).

#### Storage

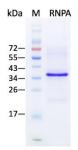
IMD

Store at -80°C. Avoid repeated freezing/thawing cycles.

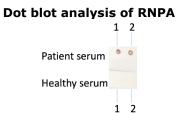
### **Quality Control Test**

BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein. Immunodot analysis to determine functionality of protein.

## **SDS-PAGE Gel**



#### **Dot blot assay**



Analysis of serum from healthy subjects and patients. Recombinant autoantigens were utilized in this dot-blot assay for validation.

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