



Human Small Nuclear Ribonucleoprotein Polypeptide C (snRNPC)

Origin:	Recombinant	Cat. No.:	41520
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>Spodoptera frugiperda</i> Sf9	Purity:	>90%
Other Names:	U1-snRNPC, RNPC, RNP-C	Species:	Human

Description

Expressed in insect Sf9 cells with total 183 AA. Mw: 20.4 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-C binds with IgG-type human auto-antibodies.

Amino Acid Sequence

MSYYHHHHHDYDIPTTENLYFQGAPKFYCDYCDTYLTHDSPSVRKTHCSGRKHKENVKD
YYQKWMEEQAQSLIDKTTAAAFQQGKIPPTPFSAPPPAGAMIPPPSLPGPPRPGMMPAPHMGGP
PMMPMMPGPPPGMMPVGPAPGMRPPMGGHMPMMPGPPMMRPPARPMMPVTRPGMTRPDR

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

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





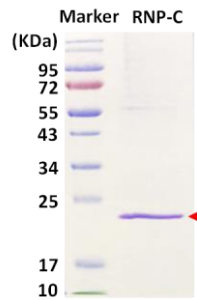
Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

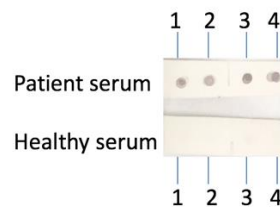
Immunodot analysis to determine functionality of protein.

SDS-PAGE Gel



Dot blot assay

Dot blot analysis of RNPC



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

Contact Us

- Website: www.immunodiagnostics.com.hk
- E-mail: info@immunodiagnostics.com.hk
- Tel: (+852) 2831 5526; 2831 5508
- Fax: (+852) 2816 2095

