

U1-snRNP C

Antigen Specification

Product Number: 13200

Description:

Human U1-snRNP C protein component of the U1 small nuclear ribonucleoprotein particle.

Recombinant antigen for research use or manufacturing only.

Immunological function:

Binds IgG-type human auto-antibodies.

Origin:

Recombinant. Expressed by recombinant baculovirus (*Autographa californica* multiple nuclear polyhedrosis virus; AcMNPV) infection of *Spodoptera frugiperda* Sf9 insect cells.

Expression construct:

Full-length cDNA coding for the human U1-snRNP C protein fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 90%); Western blot with i: anti-U1-snRNP C autoantibody-positive sera; ii: monoclonal anti-hexa-His-tag antibody.

Calculated molecular weight:

18,217 Dalton

Calculated isoelectric point:

pH 10.2

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative sera panels, including international reference sera obtained from the CDC, Atlanta, GA, USA); line assay and microarray test with positive/negative sera panels.

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH; due to purification workup under denaturing conditions presence of up to 0.02% SDS (or similar detergents) may be required for maintaining solubility.

Storage conditions: -70°C or below.

Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.3–0.6 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

Remark on assays with this antigen:

Anti-RNP autoantibodies, traditionally determined with the entire U1-snRNP particle as antigen, will require simultaneous use of recombinant U1-snRNP 68/70 kDa, U1-snRNP A and U1-snRNP C antigens for complete identification of anti-RNP positive sera.

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