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 in vitro research and manufacturing use 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 sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:
18 kDa

Calculated isoelectric point:
pH 10.2

Immunological tests/Functionality:
Standard ELISA test (checkerboard analysis of positive/negative samples, including international reference sera obtained from the CDC, Atlanta, GA, USA); line assay and immunodot analyses with positive/negative samples.

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 sample.