

## U1-snRNP A

### Antigen Specification

**Product Number:** 13100

**Description:**

Human U1-snRNP A 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 A protein fused to a hexa-histidine purification tag.

**Biochemical tests:**

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

**Calculated molecular weight:**

32 kDa

**Calculated isoelectric point:**

pH 10.1

**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 and 20% glycerol as cryoprotective agent. Storage conditions: -70°C or below.

Repeated freeze/thaw cycles should be avoided.

**Coating concentration:**

0.3–0.5 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.

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