

Recombinant Human U1-snRNP A Protein

Antigen Specification

Product Number: 13100

Description:

Human U1-snRNP A protein component of the U1 small nuclear ribonucleoprotein particle. Recombinant antigen for solid (ELISA) and fluid phase diagnostic assays.

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: MCTD sera (Mixed Connective Tissue Disease); ii: monoclonal anti-hexa-His-tag antibody.

Calculated molecular weight:

32,102 Dalton

Calculated isoelectric point:

pH 10.1

Immunological tests/Functionality:

Standard ELISA test (checker-board analysis of positive/negative sera panels, including CDC international reference sera)

Recommended buffer/storage and handling conditions:

Recommendations for storage buffer: neutral to slightly alkaline pH and 20 % glycerol as cryoprotective agent. Storage temperature: -70° to -80° C. Repeated freeze/thaw cycles should be avoided.

Coating concentration:

0.3 – 0.5 μ g/ml (depending on the type of ELISA plate and coating buffer). Suitable for biotinylation and iodination.

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, U1-snRNP A and U1-snRNP C antigens for complete identification of anti-RNP positive sera.

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