

U-snRNP B/B'

Antigen Specification

Product Number: 13300

Description:

Human U-snRNP B/B' (depending on local nomenclature this antigen is also called Sm B/B').

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 B' isoform of the human U-snRNP B/B' fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with i: anti-U-snRNP B/B' autoantibody-positive sample; ii: monoclonal anti-His-tag antibody.

Calculated molecular weight:

25 kDa

Calculated isoelectric point:

pH 11.4

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative samples, including international reference sera obtained from the CDC, Atlanta, GA, USA); 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:

0.2–0.4 µg/mL (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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