

Recombinant Human U-snRNP B/B' Protein

Antigen Specification

Product Number: 13300

Description:

Human U-snRNP B/B' protein (depending on local nomenclature this antigen is also called Sm B/B'). 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 B' isoform of the human U-snRNP B/B' protein fused to a hexa-histidine purification tag.

Biochemical tests:

SDS-PAGE (purity > 80 %); Western-Blot with i: SLE sera (Systemic Lupus Erythematoses Disease); ii: monoclonal anti-hexa-His-tag antibody.

Calculated molecular weight:

25,433 Dalton

Calculated isoelectric point:

pH 11.4

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; due to purification workup under denaturing conditions presence of up to 0.02 % SDS (or similar detergents) may be required for maintaining solubility. Storage temperature: -70° to -80° C. 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 biotinylation and iodination.

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