

DNA Topoisomerase I (Scl-70; truncated)

Antigen Specification

Product Number: 14500

Description:

Human DNA topoisomerase I (Scl-70) enzyme fragment. 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:

cDNA coding for the amino acids 191 to 765 of human DNA topoisomerase I (Scl-70) fused to a hexa-histidine purification tag. This corresponds to the processed and antigenically fully reactive enzyme molecule observed in human tissue extracts.

Biochemical tests:

SDS-PAGE (purity > 80%); Western blot with i: anti-Scl-70 autoantibody-positive sera; ii: monoclonal anti-hexa-His-tag antibody.

Calculated molecular weight:

69,199 Dalton

Calculated isoelectric point:

pH 9.4

Immunological tests/Functionality:

Standard ELISA test (checkerboard analysis of positive/negative sera panels, including CDC international reference sera); immunodot and microarray test with positive/negative sera panels.

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:

0.5-0.8 µg/ml (depending on the type of ELISA plate and coating buffer). Suitable for labeling of functional groups.

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