

DNA Topoisomerase I (Scl-70; full length)

Antigen Specification

Product Number: 12400

Description:

Human DNA topoisomerase I (Scl-70).
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
DNA topoisomerase I (Scl-70) fused to
a hexa-histidine purification tag.

Biochemical tests:

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

Calculated molecular weight:

92 kDa

Calculated isoelectric point:

pH 9.3

Immunological tests/Functionality:

Standard ELISA test (checkerboard
analysis of positive/negative samples,
including CDC international reference
sera); 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:

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

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