

## 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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