

## ***Recombinant Human DNA Topoisomerase I (Scl-70; full length)***

### **Antigen Specification**

**Product Number: 12400**

**Description:**

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

**Biochemical tests:**

SDS-PAGE (purity > 80 %); Western-  
Blot with i: Scleroderma patient sera; ii:  
monoclonal anti-hexa-His-tag antibody.

**Calculated molecular weight:**

91,576 Dalton

**Calculated isoelectric point:**

pH 9.3

**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, and  
20 % glycerol as cryoprotective agent.  
Storage temperature:  $-70^{\circ}$  to  $-80^{\circ}$  C.  
Repeated freeze/thaw cycles should  
be avoided.

**Coating concentration:**

0.5-0.8  $\mu\text{g/ml}$  (depending on the type  
of ELISA plate and coating buffer).  
Suitable for biotinylation and iodination.

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