



Bovine DNA Topoisomerase I (DAG4857)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Species	Bovine
Purity	>70% as determined by SDS-PAGE
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	Batch dependent - please inquire should you have specific requirements
Size	50 µg
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	<p>DNA topoisomerase I is a key nuclear enzyme that interconverts supercoiled DNA to the required topological conformations for normal DNA replication and transcription. This enzyme is the target antigen for the so-called Scl-70 autoantibodies. Scl-70 antibodies are a specific marker in scleroderma patients (specificity 98-100%) and are associated with the presence of diffuse skin involvement and pulmonary fibrosis.</p> <p>In human tissues the DNA topoisomerase I is initially synthesized as a protein with a molecular weight of 100 kDa. Most of this precursor is then proteolytically processed to a 70-kDa size, from which the Scl-70 antigen has derived its name</p>
Keywords	DNA Topoisomerase I; Scl-70