

## TOP1 Bovine

**Description:** Bovine DNA Topoisomerase-I purified from bovine tissues by proprietary chromatographic techniques.

Catalog #: ENPS-663

**Synonyms:** DNA topoisomerase 1, EC 5.99.1.2, DNA topoisomerase I, TOP1, Scl-70.

For research use only.

**Source:** Bovine tissues.

**Purity:** Greater than 70% as determined by SDS-PAGE.

**Formulation:**

TOP1 is supplied at a concentration of 1mg/1ml in 16mM HEPES buffer pH-7.5, 400mM NaCl and 20% glycerol.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Western blot with Scleroderma positive patient sera.

**Introduction:**

TOP1 is an important nuclear enzyme that interconverts supercoiled DNA to the necessary topological conformations for standard DNA replication and transcription. TOP1 is the target antigen for TOP1 autoantibodies. TOP1 antibodies are a specific marker in scleroderma patients (specificity 98-100%) and are related with the existence of diffuse skin involvement and pulmonary fibrosis. In human tissues top1 enzyme is primarily 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 TOP1 antigen has derived its name.

**Storage:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

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