**BACKGROUND**

Simian virus SV40 has provided an important model for studies of cellular mechanisms involved in a malignant transformation. The major SV40 translational products include the large T antigen and the small T antigen, both of which are encoded by the early region of the SV40 viral genome. The large T antigen complexes with the p53 suppressor gene, resulting in its functional inactivation, thus promoting cell transformation. In addition, SV40 large T antigen binds DNA polymerase and the transcription factor AP-2. It also forms complexes with a second tumor suppressor gene-encoded protein, Rb 105. Binding of SV40 T antigen is specific for the "pocket" domain of Rb p105, which is also the binding site for the E2F cellular transcription factor.

**REFERENCES**


**SOURCE**

SV40 T Ag (Pab 101) is a mouse monoclonal antibody against SV-40 transformed cell line B4 of mouse origin.

**PRODUCT**

Each vial contains 200 µg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SV40 T Ag (Pab 101) is available conjugated to agarose (sc-147 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-147 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; and to either phycoerythrin (sc-147 PE), fluorescein (sc-147 FITC), Alexa Fluor® 488 (sc-147 AF488) or Alexa Fluor® 647 (sc-147 AF647), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

SV40 T Ag (Pab 101) is recommended for detection of the C-terminus of large T antigen of SV40 by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of SV40 T Ag: 94 kDa.

Molecular Weight of SV40 small T antigen: 21 kDa.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

![Western blot analysis](image1.png)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.