SV40 KT3 tag (KT3): sc-58664

**BACKGROUND**

SV40 KT3 tag is derived from the carboxy-terminus of Simian Virus 40 large T antigen. These constructs contain a C-terminal KT3 tag, which is an 11 amino-acid epitope. Because SV40 is an oncogenic DNA tumor virus, it provides an important model system for understanding cellular events critical to malignant transformation. Evidence demonstrates that SV40 T antigens induce transformation through functional inactivation of the anti-oncogenic protein p53. The early region of the SV40 genome encodes the SV40 T antigen. The large T antigen binds DNA and complexes with p53, a protein required for viral DNA replication during lytic growth. More specifically, the large T antigen binds DNA polymerase and the transcription factor AP-2, forming a complex with the P105 product of the retinoblastoma susceptibility gene.

**REFERENCES**


**SOURCE**

SV40 KT3 tag (KT3) is a mouse monoclonal antibody raised against a synthetic peptide of SV40 KT3.

**PRODUCT**

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

SV40 KT3 tag (KT3) is available conjugated to agarose (sc-58664 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58664 HRP), 200 µg/ml, for WB, IHOP and ELISA; to either phycoerythrin (sc-58664 PE), fluorescein (sc-58664 FITC), Alexa Fluor® 488 (sc-58664 AF488), Alexa Fluor® 546 (sc-58664 AF546), Alexa Fluor® 594 (sc-58664 AF594) or Alexa Fluor® 647 (sc-58664 AF647), 200 µg/ml, for WB (RGB), IF, IHOP and FCM; and to either Alexa Fluor® 680 (sc-58664 AF680) or Alexa Fluor® 790 (sc-58664 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

SV40 KT3 tag (KT3) is recommended for detection of KT3 tag 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)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:


**DATA**

![SV40 KT3 tag [KT3]: sc-58664. Western blot analysis of SV40 KT3 tag expression in GM637 (A) and XP12RO (B) whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**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.

**PROTOCOLS**

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