

SV40, Simian Virus 40 is a polyomavirus that is found in both monkeys and humans. Like other polyomaviruses, SV40 is a DNA virus that has the potential to cause tumors. SV40 is believed to suppress the transcriptional properties of tumor-suppressing p53 in humans through the SV40 large T-antigen and SV40 small T-antigen. It is generally assumed that large T-antigen is the major protein involved in neoplastic processes and the large T-antigen predominantly exerts its effect through deregulation of tumor suppressor p53, which is responsible for initiating regulated cell death (“apoptosis”), or cell cycle arrest when a cell is damaged. A mutated p53 gene may contribute to uncontrolled cellular proliferation, leading to a tumor. The hypothesis that SV40 might cause cancer in humans has been a particularly controversial area of research. Some research has suggested that SV40 is associated with brain tumors, bone cancers, non-Hodgkin’s lymphoma, and malignant mesothelioma. SV40 may act as a cocarcinogen with crocidolite to cause mesothelioma.

**Reactivity** Paraffin, Frozen

**Visualization** Nuclear

**Control** SV40 Infected Tissue

**Stability** Up to 36 mo. at 2-8°C

**Isotype** IgG<sub>2a</sub>

**Protocols**

- Pretreatment: EDTA/Trilogy
- Incubation Time:  
30-60 min. RT  
or 16-32 min. at 37° C

**References**

1. Gurney EG, et al. J Vir. 1980 34:752-763.
2. Huang H, et al. Brain Pathol. 1999;9:33-42.
3. Arrington AS, Butel JS. Molecular and Clinical Perspectives 2001; 461-489.

†Analyte Specific Reagent: Analytical and performance characteristics are not established.

**Mouse Monoclonal  
Clone: MRQ-4**

- 0.1 ml, concentrate.....351M-14
- 0.5 ml, concentrate.....351M-15
- 1 ml, concentrate .....351M-16
- 1 ml, prediluted .....351M-17
- 7 ml, prediluted .....351M-18
- Positive control slides .....351S

**Mouse Monoclonal  
Clone: MRQ-4**

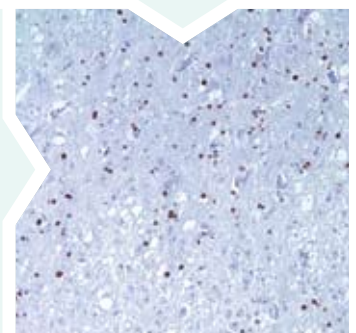
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