



# Simian Virus type 40 Major Capsid VP1 (full length) (DAG-P2866)

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

## PRODUCT INFORMATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Simian Virus 40 (SV40) Simian Virus 40 Major Capsid VP1 full length protein  |
| <b>Antigen Description</b> | The simian virus 40 capsid is composed of 72 pentamers of VP1, the major protein of SV40. These pentamers are arranged in a T=7d icosahedral surface lattice, which is maintained by three types of appropriately arranged, non-equivalent interactions between the pentamers. Simian Virus 40 Major Capsid VP1 binds to N-glycolylneuraminic analog of the ganglioside GM1 on the cell surface to provide virion attachment to target cell. Once attached, the virion enters a caveolae and traffics to the endoplasmic reticulum. Inside the endoplasmic reticulum, the protein folding machinery isomerizes VP1 interpentamer disulfide bonds, thereby triggering initial uncoating. Next, the virion uses the endoplasmic reticulum-associated degradation machinery to probably translocate in the cytosol before reaching the nucleus. The assembly takes place in the cell nucleus, encapsulates the genomic DNA and participates in rearranging nucleosomes around the viral DNA. The viral progenies exit the cells by lytic release. |
| <b>Species</b>             | Simian Virus   |
| <b>Conjugate</b>           | Unconjugated   |
| <b>Applications</b>        | ELISA WB SDS-PAGE  |
| <b>Reconstitution</b>      | Reconstitute with deionized H2O.   |
| <b>Format</b>              | Lyophilised  |
| <b>Buffer</b>              | Preservative: None Constituents: PBS   |
| <b>Preservative</b>        | None   |
| <b>Storage</b>             | Store at +4°C. Preservative: None Constituents: PBS  |

# BACKGROUND

|              |   |
|--------------|---|
| Introduction | Simian virus 40 (SV40) is a small, non enveloped DNA virus with an icosahedral capsid of 45 nm. |
| Keywords     | SV40 Major Capsid VP1; Major capsid protein VP1; Major structural protein VP1                   |