Product datasheet

Recombinant JCV Polyomavirus Major Capsid VP1 protein ab74569

Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Recombinant JCV Polyomavirus Major Capsid VP1 protein</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein length</td>
<td>Full length protein</td>
</tr>
</tbody>
</table>

Description

<table>
<thead>
<tr>
<th>Nature</th>
<th>Recombinant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Source</td>
<td>Saccharomyces cerevisiae</td>
</tr>
<tr>
<td>Amino Acid Sequence</td>
<td></td>
</tr>
<tr>
<td>Accession</td>
<td>AAG53896.1</td>
</tr>
</tbody>
</table>

Specifications

Our Abpromise guarantee covers the use of ab74569 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications

- ELISA
- Western blot
- SDS-PAGE

Purity

> 95% SDS-PAGE. Purified by ultracentrifugation.

Form

Lyophilised

Preparation and Storage

Stability and Storage

Shipped at 4°C. Store at +4°C.
Constituent: PBS

Reconstitution

Reconstitute with deionized H2O. After reconstitution store at 4°C.

General Info
**Relevance**
The human polyomavirus JC virus (JCV) infects greater than 80% of the human population. The JC virus is a small (38-40 nm in diameter) double stranded, circular DNA virus covered by an icosahedral capsid. Infection with JCV is asymptomatic and it occurs in early childhood. After the primary infection, the virus remains in latent state in the kidney, until it's reactivation under immunosuppressive conditions to result in Progressive Multifocal Leukoencephalopathy (PML), a fatal demyelinating disease. 70% of all HIV-1-infected patients will exhibit neurological disorders and between 5 and 8% of all HIV-1-infected patients will develop PML. Similar to other polyomaviruses, JCV can cause tumors when intracerebrally inoculated at high titers into developing rodent. Several reports suggest the association of viruses, especially of the polyomavirus family with different types of human brain tumors. Tumorigenicity of JCV is most likely induced by the viral early gene product T-antigen. T-antigen has the capacity to interact with several tumor suppressor proteins, most notably p53, and functionally inactivate these proteins.

**Cellular localization**
Virion. Nucleus

**Images**

SDS-PAGE showing ab74569 (4µg/lane). Lane 1 represents the molecular weight ladder. From the bottom: 14.4, 18.4, 25.0, 35.0, 45.0, 66.2 kDa

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