

Product datasheet

Recombinant JCV Polyomavirus Major Capsid VP1 protein ab74569

[2 References](#) [1 Image](#)

Description

Product name	Recombinant JCV Polyomavirus Major Capsid VP1 protein	
Purity	> 95 % SDS-PAGE. Purified by ultracentrifugation.	
Expression system	Saccharomyces cerevisiae	
Accession	AAG53896.1	
Protein length	Full length protein	
Animal free	No	
Nature	Recombinant	
Sequence	<p>MAPTKRKGERKDPVQVPKLLIRGGVEVLEVKTGVDSITEV ECFLTPEMGD PDEHLRGFSKISISIDTFESDSPNKDMLPCYSVARIPLPNL NEDLTCGNI LMWEAVTLKTEVLGVTTLMNVHSNGQATHDNGAGKPVQ GTSFHFFSVGGE ALELQGVVFNRYRTKYPDGTIFPKNATVQSQVMNTEHKAYL DKNKAYPVEC WVPDPTRNENTRYFGTLTGGENVPPVLHITNTATTVLLDEF GVGPLCKGD NLYLSAVDVCGMFTNRSGSQWRGLSRYFKVQLRKRRV KNPYPISFLLTD LINRRTPKVDGQPMYGMDAQIEEVRVFEGTEELPGDPDM MRYVDRYGQLQ TKML</p>	
Predicted molecular weight	40 kDa	
Actual molecular weight	41 kDa	
Amino acids	1 to 354	

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

Form Lyophilized

Additional notes JCV VP1 protein was purified and lyophilized assembled into virus like particles (VLPs). It is tested for hemagglutination activity and analysed using electron microscopy.

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

SDS-PAGE - Recombinant JCV Polyomavirus Major
Capsid VP1 protein (ab74569)

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