

Product datasheet

Recombinant JCV Polyomavirus Major Capsid VP1 protein ab74569

3 References 3 Images

Description	
Product name	Recombinant JCV Polyomavirus Major Capsid VP1 protein
Biological activity	JCV VP1 protein was purified and lyophilized assembled into virus like particles (VLPs). It is tested for hemagglutination activity and analysed using electron microscopy.
Purity	> 95 % SDS-PAGE. Purified by ultracentrifugation.
Expression system	Saccharomyces cerevisiae
Accession	<u>AAG53896.1</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Sequence	MAPTKRKGERKDPVQVPKLLIRGGVEVLEVKTGVDSITEV ECFLTPEMGD PDEHLRGFSKISISDTFESDSPNKDMLPCYSVARIPLPNL NEDLTCGNI LMWEAVTLKTEVLGVTTLMNVHSNGQATHDNGAGKPVQ GTSFHFFSVGGE ALELQGVVFNRYRTKYPDGTIFPKNATVQSQVMNTEHKAYL DKNKAYPVEC WVPDPTRNENTRYFGTLTGGENVPPVLHITNTATTVLLDEF GVGPLCKGD NLYLSAVDVCGMFTNRSGSQWRGLSRYFKVQLRKRRV KNPYPISELLTD LINRRTPKVDGQPMYGMDAQIEEVRVFEGTEELPGDPDM MRYVDRYGQLQ TKML
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	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.

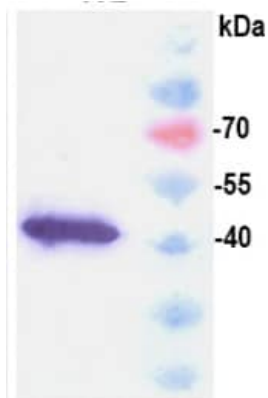
Preparation and Storage

Stability and Storage	Shipped at 4°C. Store at +4°C.
	Constituent: PBS
	This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Reconstitute with deionized H ₂ O. After reconstitution store at 4°C. With the addition of glycerol store at -20°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



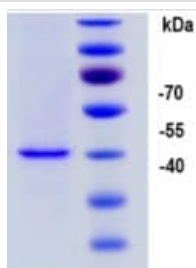
Western blot - Recombinant JCV Polyomavirus
Major Capsid VP1 protein (ab74569)

Recombinant JCV Polyomavirus Major Capsid VP1 protein
(ab74569)

Predicted band size: 40 kDa

Western blot showing ab74569 (Lane 1)

MW ladder (Lane 2)



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

SDS-PAGE showing ab74569 (Lane 1)

Lane 2 represents the molecular weight ladder.



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

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

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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