abcam

Product datasheet

Recombinant JCV Polyomavirus Major Capsid VP1 protein (Tagged) ab255712

Description

Product name	Recombinant JCV Polyomavirus Major Capsid VP1 protein (Tagged)
Purity	> 85 % SDS-PAGE.
Expression system	Yeast
Accession	P03089
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Polyomavirus
Sequence	MAPTKRKGERKDPVQVPKLLIRGGVEVLEVKTGVDSITEV ECFLTPEMGD PDEHLRGFSKSISISDTFESDSPNRDMLPCYSVARIPLPNL NEDLTCGNI LMWEAVTLKTEVIGVTSLMNVHSNGQATHDNGAGKPVQG TSFHFFSVGGE ALELQGVLFNYRTKYPDGTIFPKNATVQSQVMNTEHKAYL DKNKAYPVEC WVPDPTRNENTRYFGTLTGGENVPPVLHITNTATTVLLDEF GVGPLCKGD NLYLSAVDVCGMFTNRSGSQQWRGLSRYFKVQLRKRRV KNPYPISFLLTD LINRRTPRVDGQPMYGMDAQVEEVRVFEGTEELPGDPD MMRYVDKYGQLQ TKML
Predicted molecular weight	40 kDa
Amino acids	1 to 354
Tags	His tag N-Terminus
Additional sequence information	JC polyomavirus (JCPyV) (JCV).

Specifications

Our Abpromise guarantee covers the use of **ab255712** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)

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. Tumorigenecity 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

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