Minor capsid protein VP2 Recombinant Protein | VP2 recombinant protein

Recombinant JC polyomavirus Minor capsid protein VP2

CATALOG #	HOST
AAA114545	**E Coli or Yeast or Baculovirus or Mammalian Cell**

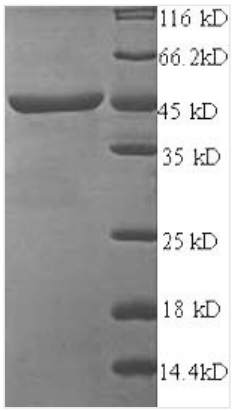
PRODUCT SYNONYMS

Minor capsid protein VP2; Recombinant JC polyomavirus Minor capsid protein VP2; VP2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	2-344aa; Full Length of Mature Protein
Sequence	GAALALLGDL VATVSEAAAA TGFSVAEIAA GEAAATIEVE IASLATVEGI TSTSEAIAAI GLTPETYAVI TGAPGAVAGF AALVQTVTGG SAIAQLGYRF FADWDHKVST VGLFQQPAMA LQLFNPEDYY DILFPGVNAF VNNIHYLDPR HWGPSLFSTI SQAFWNLVRD DLPALTSQEI QRRTQKLFVE SLARFLEETT WAIVNSPANL YNYISDYYSR LSPVRPSMVR QVAQREGTYI SFGHSYTQSI DDADSIQEVT QRLDLKTPNV QSGEFIERSI APGGANQRSA PQWMLPLLLG LYGTVTPALE AYEDGPNKKK RRKEGPRASS KTSYKRRSRS SRS
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for VP2 recombinant protein	Isoform VP2 is a structural protein that resides within the core of the capsid surrounded by 72 VP1 pentamers. Participates in host cell receptor binding together with VP1. Following virus endocytosis and trafficking to the endoplasmic reticulum, VP2 and VP3 form oligomers and integrate into the endoplasmic reticulum membrane. Heterooligomer VP2-VP3 may create a viroporin for transporting the viral genome across the endoplasmic reticulum membrane to the cytoplasm. Nuclear entry of the viral DNA involves the selective exposure and importin recognition of VP2 or Vp3 nuclear localization signal (shared C-terminus). Plays a role in virion assembly within the nucleus in particular through a DNA-binding domain located in the C-terminal region. A N-terminal myristoylation suggests a scaffold function for virion assembly. Isoform VP3: structural protein that resides within the core of the capsid surrounded by 72 VP1 pentamers. Following virus endocytosis and trafficking to the endoplasmic reticulum, VP2 and VP3 form oligomers and integrate into the endoplasmic reticulum membrane. Heterooligomer VP2-VP3 may create a viroporin for transporting the viral genome across the endoplasmic reticulum membrane to the cytoplasm. Nuclear entry of the viral DNA involves the selective exposure and importin recognition of VP2 or Vp3 nuclear localization signal (shared C-terminus). Isoform VP3 plays a role in virion assembly within the nucleus. May participate in host cell lysis when associated with VP4. Isoform VP4 is a viroporin inducing perforation of cellular membranes to trigger virus progeny release. Forms pores of 3 nm inner diameter. VP4 is expressed about 24 hours after the late structural proteins and is not incorporated into the mature virion.
References	Human polyomavirus JC virus genome.Frisque R.J., Bream G.L., Cannella M.T.J. Virol. 51:458-469(1984) The Polyomaviridae Contributions of virus structure to our understanding of virus receptors and infectious entry.Neu U., Stehle T., Atwood W.J.Virology 384:389-399(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	9628644
NCBI GeneID	1489522
NCBI Accession #	NP_043509.1
NCBI GenBank Nucleotide #	NC_001699.1
UniProt Accession #	P03095
Molecular Weight	39.2 kDa
NCBI Official Full Name	hypothetical protein
NCBI Official Symbol	Jvgp2
NCBI Protein Information	VP2 capsid protein
UniProt Protein Name	Minor capsid protein VP2
UniProt Entry Name	VP2_POVJC

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/minor-capsid-protein-vp2-recombinant-protein-e-coli/114545