

Monkeypox virus

The **Monkeypox virus (MPXV)** is an enveloped virus with a brick- or ovoid-shaped structure and a double-stranded DNA genome of approximately 197 kbp. Encoding around 200 genes essential for replication, transcription, and assembly, MPXV can cause significant illness, particularly in immunocompromised individuals, despite being less severe than smallpox. The virus is classified into two main clades: the **Central African clade**, known for its higher mortality rates, and the **West African clade**. Since 2022, a global outbreak of monkeypox caused by the MPXV clade IIb has been ongoing. A new variant, **clade Ib**, is now spreading with an estimated fatality rate of 10%.

Key structural proteins are critical to the virus's lifecycle and essential for vaccine development, diagnostics, and therapies. **A35R** regulates viral transmission and is a primary vaccine target. **E8L** enables attachment to host cells, while **M1R** supports viral assembly and host entry. **A29L** facilitates virus assembly and host interaction, and **B6R** is vital for extracellular particle infectivity and therapeutic targeting. **D14L** and **H3L** protect the virus and enhance host cell attachment. These proteins, along with the viral envelope and core, are crucial for infection and immune evasion.

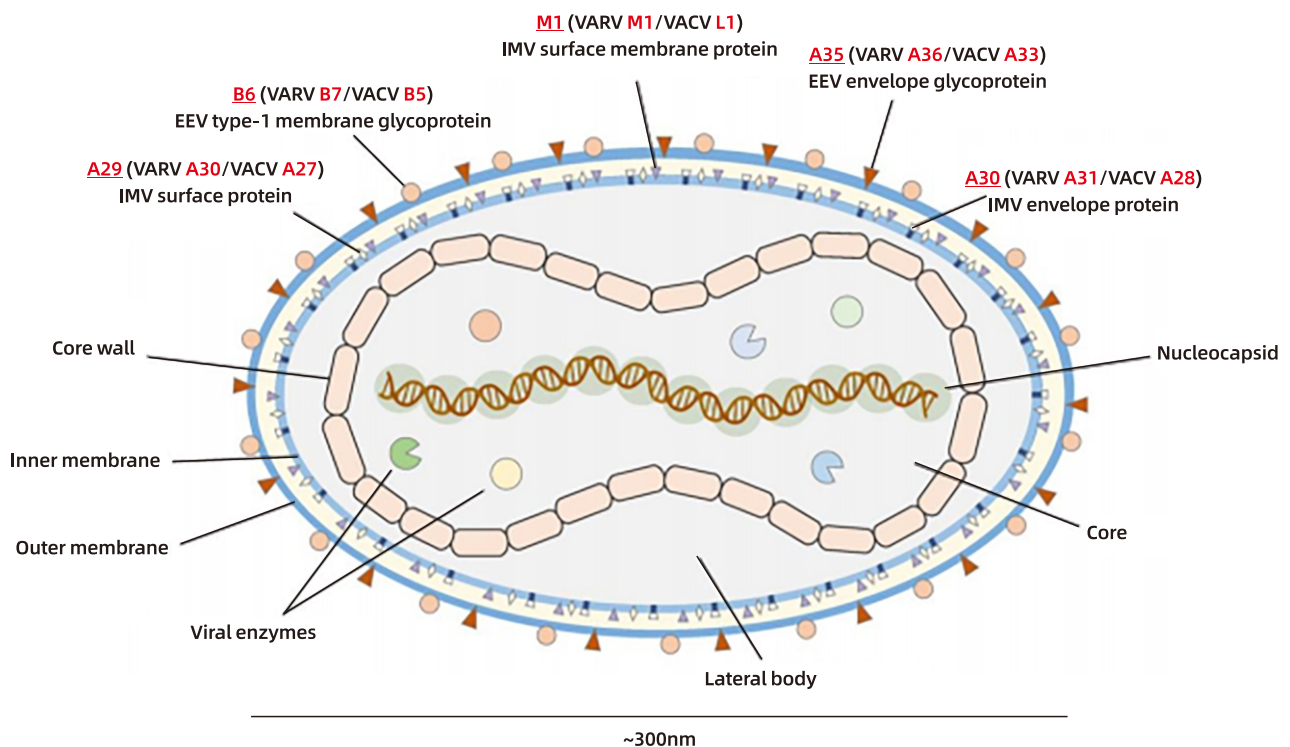


Fig.1 Structure of MPXV and selected viral antigens(Viruses)

Catalog No.	Product Name
Protein	
VK784012	Recombinant Monkeypox virus/MPXV B5R Protein, N-His
VK713012	Recombinant Monkeypox virus/MPXV C18L Protein, N-His
VK707012	Recombinant Monkeypox virus/MPXV H3L Protein, N-His
VK526011	Recombinant Monkeypox virus/MPXV B6R/SL-159 Protein, C-His
VK415011	Recombinant Monkeypox virus/MPXV A29L Protein, C-His
VK785011	Recombinant Monkeypox virus/MPXV M1R Protein, C-His
VK680011	Recombinant Monkeypox virus/MPXV E8L Protein, C-His
VK601011	Recombinant Monkeypox virus/MPXV A35R Protein, C-His
Antibody	
VK707013	Mouse Anti-Monkeypox virus/MPXV H3L Antibody (ABS2141)
VK785013	Mouse Anti-Monkeypox virus/MPXV M1R Antibody (ABS1044)
VK680013	Mouse Anti-Monkeypox virus/MPXV E8L Antibody (ABS0165)
VK415013	Mouse Anti-Monkeypox virus/MPXV A29L Antibody (ABS0752)
VK601013	Mouse Anti-Monkeypox virus/MPXV A35R Antibody (ABS1138)
KIT	
VK526018	Monkeypox Virus (MPXV) B6R Antigen ELISA Kit
VK680018	Monkeypox Virus (MPXV) E8L Antigen ELISA Kit
VK707018	Monkeypox Virus (MPXV) H3L Antigen ELISA Kit
VK785018	Monkeypox Virus (MPXV) M1R Antigen ELISA Kit
VK415018	Monkeypox Virus (MPXV) A29L Antigen ELISA Kit
AK415028	Anti-MPXV A29L Human IgG ELISA Kit
AK680028	Anti-MPXV E8L Human IgG ELISA Kit
AK707028	Anti-MPXV H3L Human IgG ELISA Kit
AK785028	Anti-MPXV M1R Human IgG ELISA Kit

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Telephone: +33(0)390205470

Mail: info@abinscience.com

Web: www.abinscience.com

Add: 19 rue de la Haye 67300 Schiltigheim France