

32-190069: Recombinant Monkeypox virus A29 Protein

Application : ELISA
Alternative Name : A29L; A29

Description

Endotoxin : <0.1EU/ug
Species : Monkeypox virus
Expression Host : HEK293 cells
Tag : C-His

Description A29 is a surface envelope protein that is produced by the monkeypox virus A29L gene and is highly conserved in poxviruses. It is a homolog of vaccinia virus Copenhagen A27. The protein A29 consists of 110 amino acids and predicts a molecular mass of 14.4 kDa. The affinity with which protein A29 binds to heparin is equivalent to that of the protein VACV A27, indicating the adaptability of this motif or heparin-binding. According to an alignment of the amino acid sequences of vaccinia A27, MPXV A29, and other OPXV orthologs only four amino acids separate MPXV from all other OPXVs taken into consideration. Under reducing conditions (SDS-PAGE), the protein migrates as 16 kDa, 18 kDa, and 22 kDa due to glycosylation. A29's epitope was created specifically for the monkeypox virus. Furthermore, the large immunogenic surface glycoprotein B21R of monkeypox viruses, which are uniquely found in those viruses, can be utilized to identify monkeypox from other orthopoxviruses and prior vaccinia vaccination. For the detection of the monkeypox virus, these epitopes have been employed. The expression method of HEK293 cells produces the Abeomics Recombinant Monkeypox virus A29 Protein. The sequence (Met1-Glu110) of A29 is fused with a 6His tag at the C-terminus to express the target protein.

Product Info

Amount : 10 ug / 50 µg
Purification : > 95% by SDS-PAGE.
Content : Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
Storage condition : Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

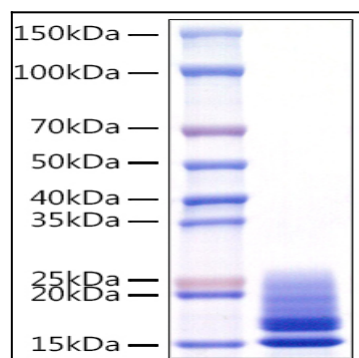


Figure 1 : Recombinant Monkeypox virus A29 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-20kDa.