

Active Recombinant Monkeypox virus (Democratic Republic of the Congo) A33R Protein, Twin-WSHPQFEK&HSA&His tagged

Cat. No. A33R-10985H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Monkeypox virus (Democratic Republic of the Congo) A33R Protein, Twin-WSHPQFEK Tag&His Tag is expressed from human 293 cells (HEK293). It contains AA Met 1 - Asp 142 (Accession # EPI_ISL_19093812, GISAID). This protein carries a WSHPQFEK tag and HSA tag at the N-terminus and a polyhistidine tag at the C-terminus. Predicted N-terminus: Trp
Species	MPXV
Source	HEK293
ProteinLength	1-142 aa
Description	Monkeypox is a rare zoonosis caused by monkeypox virus, which has become the most serious orthopoxvirus and consists of complex double stranded DNA. The pathogenesis of monkeypox is that the virus invades the body from respiratory mucosa, multiplies in lymphocytes, and incurs into blood producing transient venereal toxemia. after the virus multiplies in cells, the cells can invade the blood and propagate to the skin of the whole body, causing lesions. A33R is extracellular enveloped specific protein, it is the target of complement mediated cytolysis.
Form	Lyophilized from 0.22 µm filtered solution in PBS, 0.5 M Arginine, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Monkeypox virus (Democratic Republic of the Congo) A33R Protein,

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Twin-WSHPQFEK Tag&His Tag at 1 µg/mL (100 µL/well) can bind Anti-Monkeypox virus/MPXV A33R Polyclonal Antibody, Rabbit IgG with a linear range of 1-63 ng/mL.

Molecular Mass

The protein has a calculated MW of 88.7 kDa. The protein migrates as 95-100 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU/µg by the LAL method/rFC method.

Purity

>90% as determined by SDS-PAGE.

Storage

This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Official Symbol

A33R

Synonyms

A33R

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