

Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) (MALS verified)

Catalog # H3L-M611



Source

Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) is a chimeric monoclonal antibody recombinantly expressed from HEK293, which combines the variable region of a mouse monoclonal antibody with Human constant domain.

Clone

1C5

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Virus

Immunogen

Recombinant Monkeypox virus (strain Zaire-96-I-16) H3L is expressed from human 293 cells.

Specificity

Specifically recognizes Monkeypox virus (strain Zaire-96-I-16) H3L.

Application

Application	Recommended Usage
ELISA	0.1-50 ng/mL

Purity

>90% as determined by SDS-PAGE.
>90% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

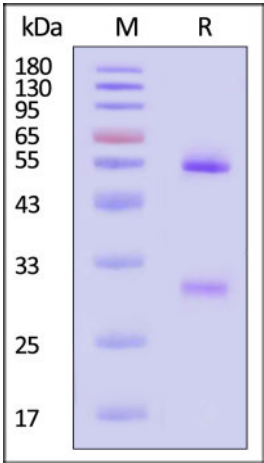
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.

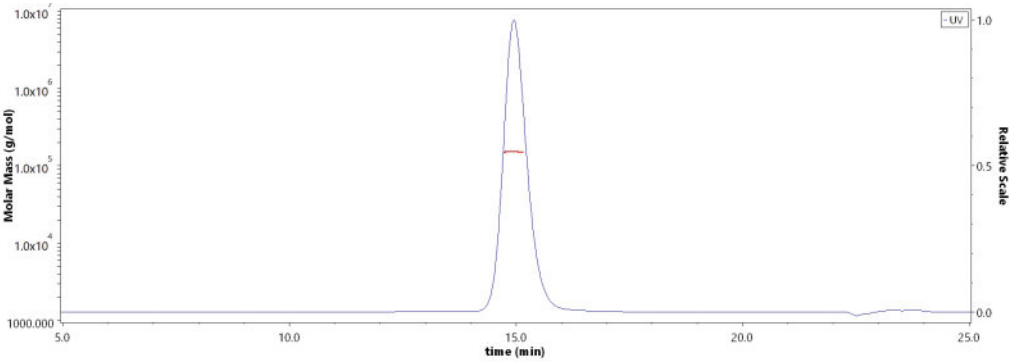
This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



SEC-MALS



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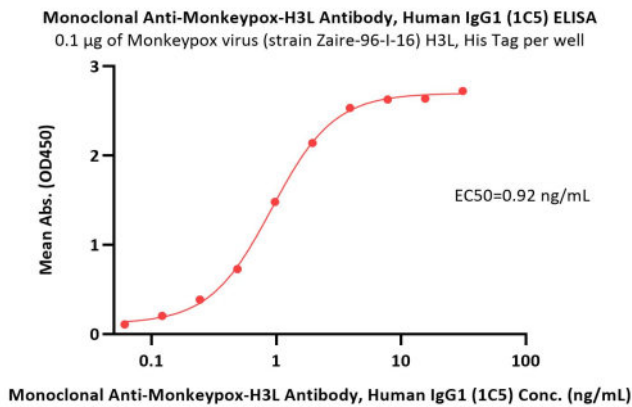
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Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

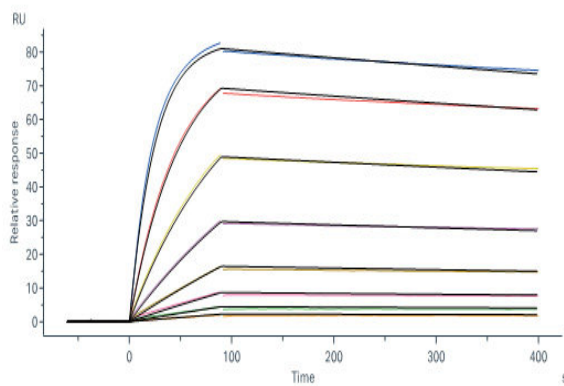
The purity of Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) (Cat. No. H3L-M611) is more than 90% and the molecular weight of this protein is around 135-165 kDa verified by SEC-MALS. [Report](#)

Bioactivity-ELISA



Immobilized Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag (Cat. No. H3L-M52H1) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) (Cat. No. H3L-M611) with a linear range of 0.1-2 ng/mL (QC tested).

Bioactivity-SPR



Monoclonal Anti-Monkeypox-H3L Antibody, Human IgG1 (1C5) (Cat. No. H3L-M611) captured on Protein A Chip can bind Monkeypox virus (strain Zaire-96-I-16) H3L, His Tag (Cat. No. H3L-M52H1) with an affinity constant of 0.194 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

Monkeypox is a rare zoonosis caused by monkeypox virus, which has become the most serious orthpoxvirus 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. H3L is similar to Vaccinia virus strain Copenhagen H3L heparin binding surface protein (Cop-H3L) surface membrane protein. There are research reports H3L induced transcriptional perturbations and injuries.

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