Monoclonal Anti-Monkeypox-A29L Antibody, Human IgG1 (3H9) (MALS verified)

Catalog # A2L-M577

Source

Monoclonal Anti-Monkeypox-A29L Antibody, Human IgG1 (3H9) is a chimeric monoclonal antibody recombinantly expressed in HEK293, which combines the variable region of a mouse monoclonal antibody with human constant domain.

Antibody Type

Recombinant Monoclonal

Clone

3H9

Isotype

Human IgG1, Kappa

Host Species

Mouse

Reactivity

Virus

Immunogen

Recombinant Monkeypox virus (strain Zaire-96-I-16) A29L derived from human 293 cells

Specificity

This product is a specific antibody specifically reacts with A29L (MPXV).

Purification

Protein A purified / Protein G purified.

Aggregation

Less than 10%, as determined by SEC-MALS.

Concentration

Please refer to the Certificate of Analysis (CoA).

Form

Lyophilized

Formulation

Lyophilized from a 0.22 μm-filtered solution in PBS (pH 7.4), with trehalose as protectant.

Please contact us for customized product forms or formulations.

Reconstitution

Please refer to the Certificate of Analysis (CoA) for specific instructions.

Shipping

Lyophilized product is shipped at ambient temperature.

Storage

For long term storage, the product should be stored in a 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.

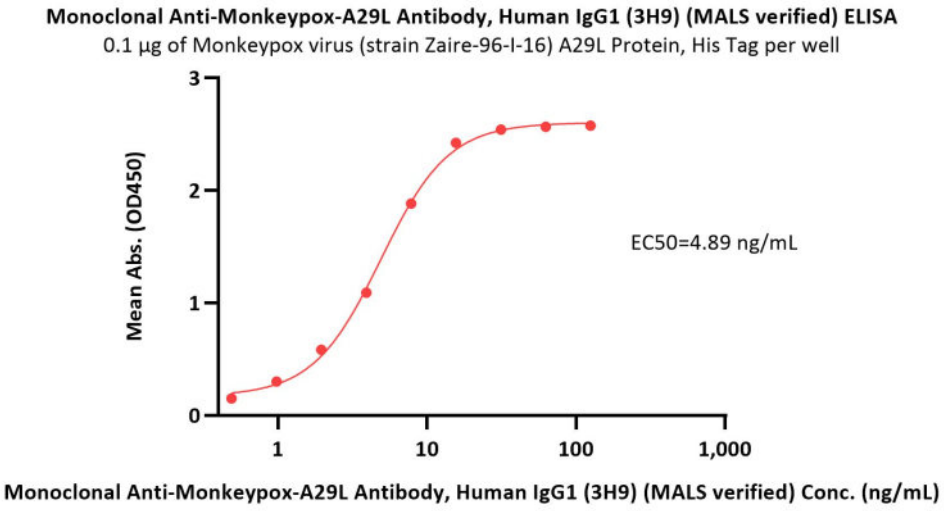
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

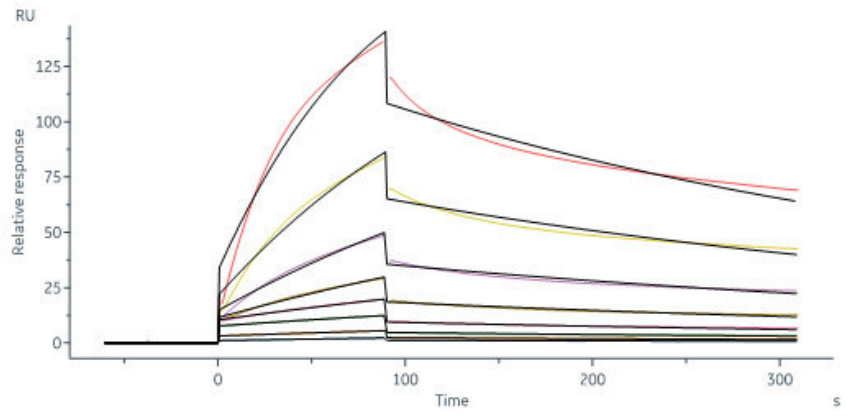
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

Bioactivity-ELISA



Immobilized Monkeypox virus (strain Zaire-96-I-16) A29L Protein, His Tag (Cat. No. A2L-M52H3) at 1 μg/mL (100 μL/well) can bind Monoclonal Anti-Monkeypox-A29L Antibody, Human IgG1 (3H9) (MALS verified) (Cat. No. A2L-M577) with a linear range of 0.5-16 ng/mL (QC tested).

Bioactivity-SPR



Monoclonal Anti-Monkeypox-A29L Antibody, Human IgG1 (3H9) (Cat. No. A2L-M577) captured on Protein A Chip can bind Monkeypox virus (strain Zaire-96-I-16) A29L Protein, His Tag (Cat. No. A2L-M52H3) with an affinity constant of 47.7 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. A29L binds to cell surface heparin to promote fusion of viral membrane with host plasma membrane.