

Monoclonal Anti-HRSV F Antibody, Human IgG1 (AM14) (MALS verified)

Catalog # HRF-S367



BIOSYSTEMS
Acro

Source

Monoclonal Anti-HRSV F Antibody, Human IgG1 (AM14) is a recombinant chimeric monoclonal antibody expressed in CHO, which combines the variable region of a mouse monoclonal antibody with human constant domain.

Antibody Type

Recombinant Monoclonal

Clone

AM14

Isotype

Human IgG1, Kappa

Host Species

Mouse

Reactivity

Virus

Specificity

This product is a specific antibody specifically reacts with HRSV F.

Application

Application	Recommended Usage
ELISA	1:600-1:6000

Cross Verification

This product can cross in Elisa with
HRSV (A) Pre-fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H7).
This product No cross-reactivity in ELISA with
HRSV (B) Pre-fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H8).
HRSV (B) Post-fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H9).
HRSV (A) Post-fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H6).

Purification

Protein A purified / Protein G purified.

Aggregation

Less than 5%, 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.

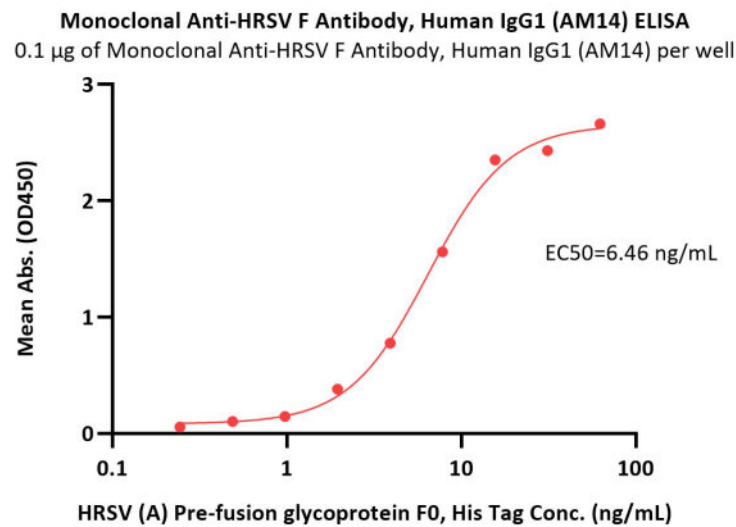
Notices

Product Specific Notices: For research use only.

ACRO Quality Management System

- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

Bioactivity-ELISA



Immobilized Monoclonal Anti-HRSV F Antibody, Human IgG1 (AM14) (Cat. No. HRF-S367) at 1 µg/mL (100 µL/well) can bind HRSV (A) Pre-fusion glycoprotein F0, His Tag (Cat. No. RSF-V52H7) with a linear range of 0.2-16 ng/mL (QC tested).

Background

Human respiratory syncytial virus (HRSV) is the most common etiological agent of acute lower respiratory tract disease in infants and can cause repeated infections throughout life. The RSV fusion glycoprotein (RSV F) is the principal target of RSV neutralizing antibodies in human sera. The RSV F is a type I viral fusion protein synthesized as inactive, single-chain polypeptides that assemble into trimers. RSV F fuses the viral and host cell membranes by irreversible protein refolding from the labile prefusion conformation to the stable post-fusion conformation. Antibody AM14 has a uniquely trimer-specific and neutralizing activity. It recognizes a quaternary epitope that spans two protomers and includes a region that undergoes extensive conformational changes in the pre- to postfusion F transition. The specificity of the potent RSV neutralizing antibody AM14 makes it a useful reagent for probing or isolating the cleaved trimeric state of prefusion F.

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