



### Source

Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) (S1N-VM226) is a chimeric monoclonal antibody recombinantly expressed from HEK293 cells, which combines the variable region of a mouse monoclonal antibody with human IgG1 constant domain. The mouse monoclonal antibody was obtained from a mouse immunized with recombinant SARS-CoV-2 Spike S1 Protein. *As verified in competitive ELISA-based and pseudovirus-based neutralization assay, this chimeric monoclonal can potently neutralize all SARS-CoV-2 Variants of Concern (VOCs), including Alpha (B.1.1.7), Beta (B.1.351), Gamma (P.1) and Delta (B.1.617.2).*

### Clone

AM122

### Isotype

Human IgG1 | Human Kappa

### Conjugate

Biotin

### Antibody Type

Recombinant Monoclonal

### Reactivity

Virus

### Specificity

This product is a specific antibody against SARS-CoV-2 Spike protein RBD domain. No cross-reactivity is detected with Spike RBD domain of other coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.

### Application

Application	Recommended Usage
ELISA	1.6-200 ng/mL

### Purity

>95% 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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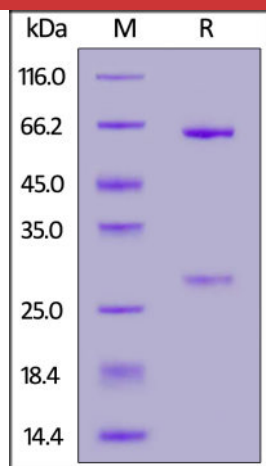


# Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM122) (MALS verified)

Catalog # S1N-VM226

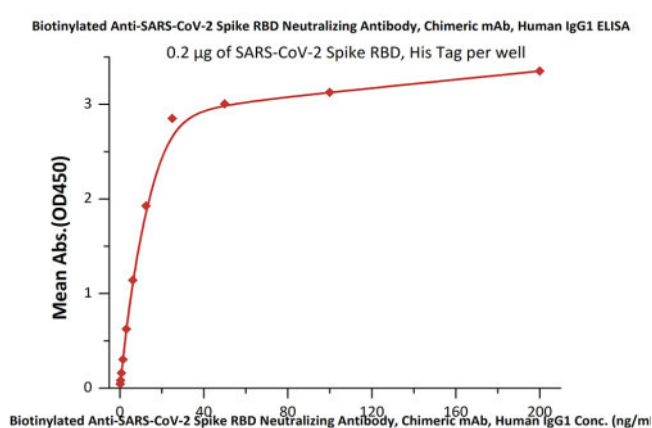


BIOSYSTEMS  
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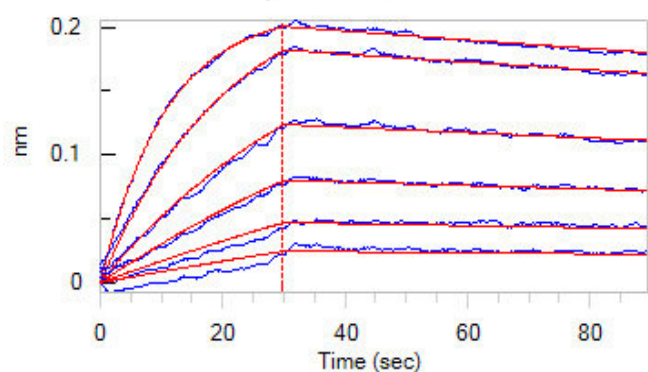
Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA

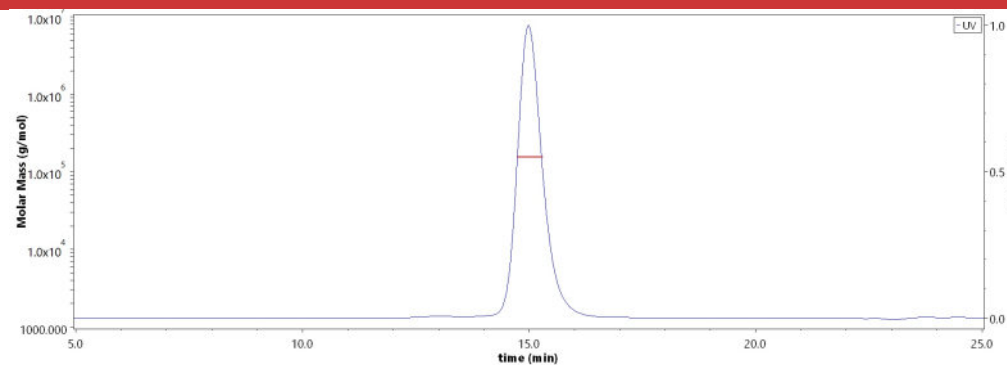


Immobilized SARS-CoV-2 Spike RBD, His Tag (Cat. No. SPD-C52H3) at 2 µg/mL (100 µL/well) can bind Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) (Cat. No. S1N-VM226) with a linear range of 0.2-13 ng/mL (QC tested).

## Bioactivity-BLI

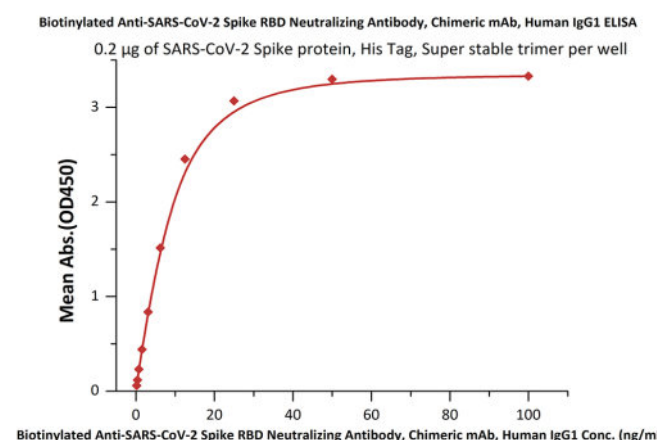


Loaded Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) (Cat. No. S1N-VM226) on AHC Biosensor, can bind SARS-CoV-2 Spike RBD, His Tag (Cat. No. SPD-C52H3) with an affinity constant of 1.97 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

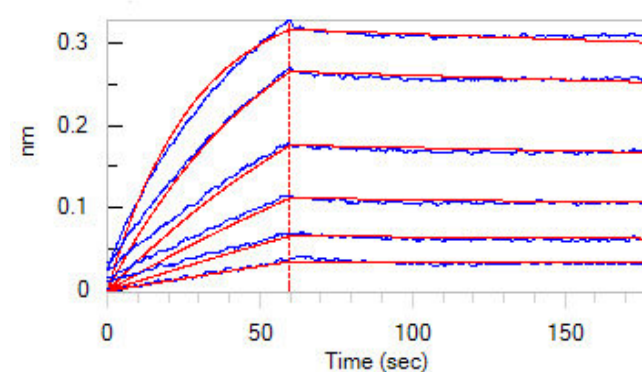


The purity of Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) (Cat. No. S1N-VM226) is more than 90% and the molecular weight of this protein is around 145-160 kDa verified by SEC-MALS.

[Report](#)



Immobilized SARS-CoV-2 Spike Protein, His Tag, Super stable trimer (Cat. No. SPN-C52H9) at 2 µg/mL (100 µL/well) can bind Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Human IgG1 (AM122) (Cat. No. S1N-VM226) with a linear range of 0.2-13 ng/mL (Routinely tested)



Loaded Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Chimeric mAb, Human IgG1 (Cat. No. S1N-VM226) on AHC Biosensor, can bind SARS-CoV-2 Spike Protein, His Tag, Super stable trimer (Cat. No. SPN-C52H9) with an affinity constant of 2.47 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

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9/14/2024

# Biotinylated Anti-SARS-CoV-2 Spike RBD Neutralizing Antibody, Chimeric mAb, Human IgG1 (AM122) (MALS verified)

Catalog # S1N-VM226



It's been reported that Coronavirus can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. The spike protein is a large type I transmembrane protein containing two subunits, S1 and S2. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. S2 contains basic elements needed for the membrane fusion. The S protein plays key parts in the induction of neutralizing-antibody and T-cell responses, as well as protective immunity.

## Clinical and Translational Updates

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