



**Source**

Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) 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 S1 protein. This chimeric antibody is purified by Protein A affinity chromatography.

**Clone**

AM130

**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 RBD. No cross-reactivity is detected with Spike RBD of other coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1.

**Application**

Application	Recommended Usage
ELISA	0.1-200 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**

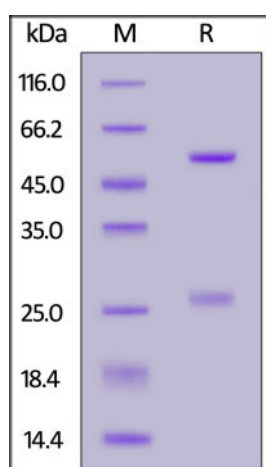
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

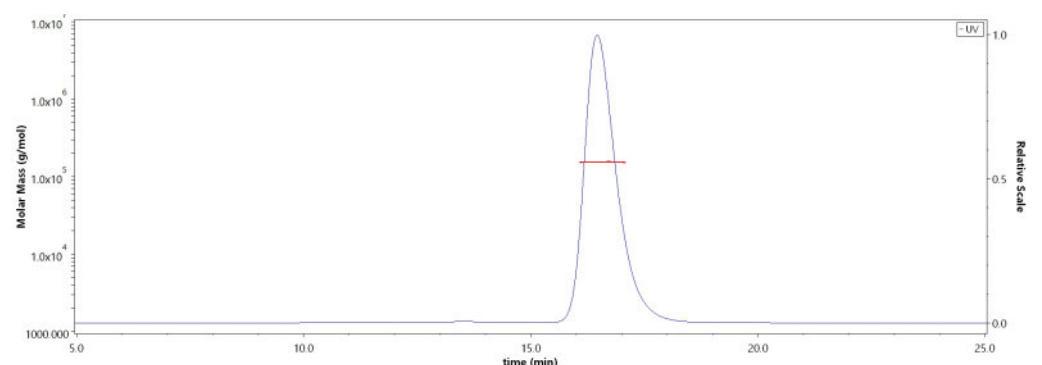
This product is stable after storage at:

- -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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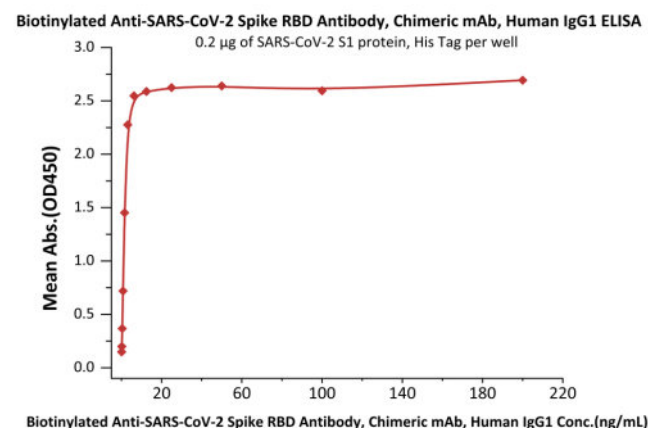
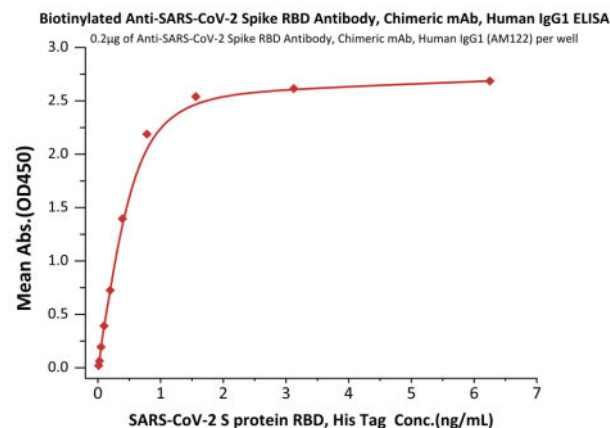
Catalog # S1N-M13L3

Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

The purity of Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Cat. No. S1N-M13L3) is more than 90% and the molecular weight of this protein is around 145-160 kDa verified by SEC-MALS.

[Report](#)

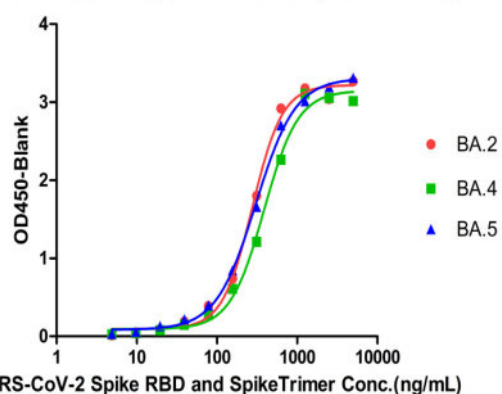
## Bioactivity-ELISA



Immobilized Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM122) (Cat. No. S1N-M12A1) at 2 µg/mL, add increasing concentrations of SARS-CoV-2 S protein RBD, His Tag (Cat. No. SPD-C52H1) and then add Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Cat. No. S1N-M13L3) at 0.2 µg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 0.05 ng/mL (QC tested).

Immobilized SARS-CoV-2 S1 protein, His Tag (Cat. No. S1N-C52H2) at 2 µg/mL (100 µL/well) can bind Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (Cat. No. S1N-M13L3) with a linear range of 0.195-15.6 ng/mL (Routinely tested).

### Detection SARS-CoV-2 Spike RBD and SpikeTrimer by ELISA



Immobilized Anti-SARS-CoV-2 Spike RBD Broadly Neutralizing Antibody, Human IgG1 (AM359b) (MALS verified) (Cat. No. SPD-M265) at 2 µg/mL, add increasing concentrations of SARS-CoV-2 Spike RBD, His Tag (BA.2/Omicron) (MALS verified) (Cat. No. SPD-C522g) and SARS-CoV-2 Spike Trimer, His Tag (BA.4/Omicron) (MALS verified) (Cat. No. SPN-C5229) and SARS-CoV-2 Spike Trimer, His Tag (BA.5/Omicron) (MALS verified) (Cat. No. SPN-C522e), and then add Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (MALS verified) (Cat. No. S1N-M13L3) at 0.5 µg/mL. Detection was performed using HRP-conjugated streptavidin with sensitivity of 19.53 ng/mL (Routinely tested).

## Background

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

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**Biotinylated Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgG1 (AM130) (MALS verified)**

Catalog # S1N-M13L3



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.

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