



Source

The mouse monoclonal antibody is produced from a hybridoma resulting from fusion of SP2/0 myeloma and B-lymphocytes obtained from a mouse immunized with Spike RBD F(ab')₂. *The antibody is specific against the Delta (B.1.617.2/AY.4) variant of SARS-CoV-2, and has no binding with the spike RBD of the wild type virus and the Alpha (B.1.1.7), Beta (B.1.351), Gamma (P.1), Omicron (B.1.1.529/BA.1) variant.*

Clone

AS110

Species

Mouse

Isotype

Mouse IgG1 | Mouse Kappa

Conjugate

Unconjugated

Reactivity

Virus

Specificity

This product is a specific antibody against SARS-CoV-2 Spike protein RBD domain. Cross-reactivity with Spike protein RBD domain of other coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-OC43 and HCoV-HKU1, has not been tested.

Application

| Application | Recommended Usage |
|-------------|-------------------|
| ELISA | 0.1-3 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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

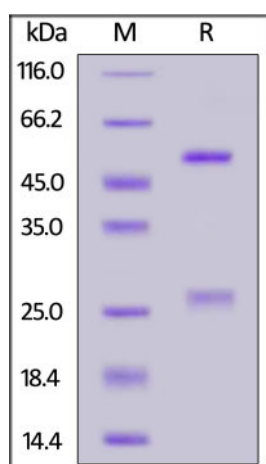
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

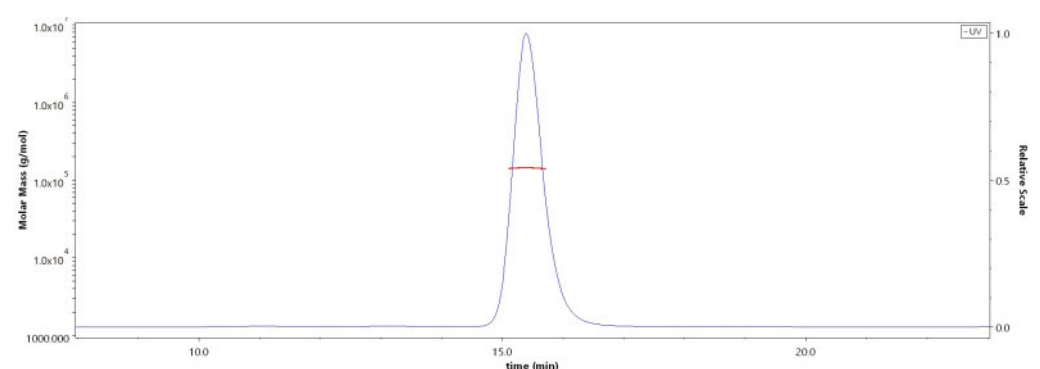
This product is stable after storage at:

- -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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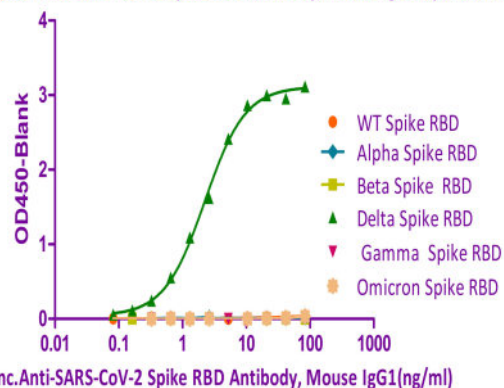
Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

The purity of Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) (Cat. No. SPD-M110) is more than 90% and the molecular weight of this protein is around 135-155 kDa verified by SEC-MALS.

[Report](#)

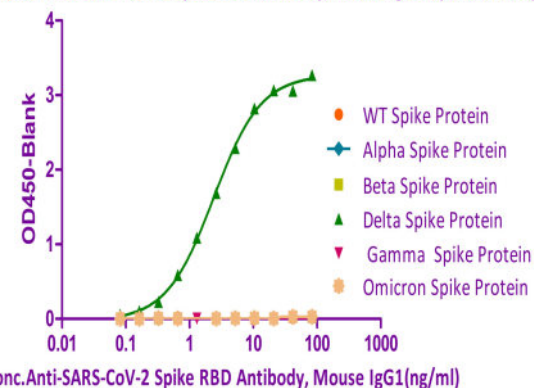
Bioactivity-ELISA

Detection of Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 by ELISA Assay



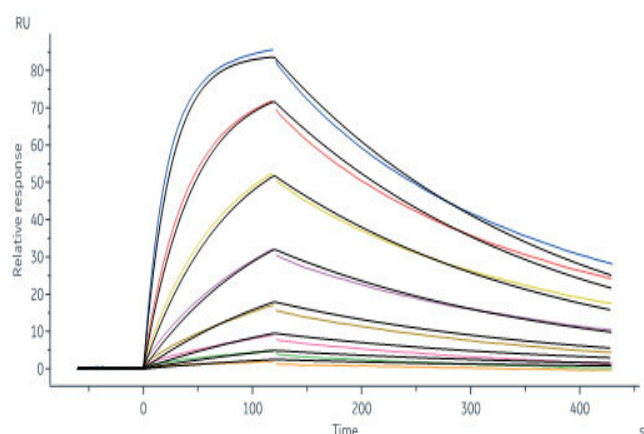
Immobilized SARS-CoV-2 Spike RBD (L452R, T478K), His Tag (Cat. No. SPD-C52Hh) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) (Cat. No. SPD-M110) with a linear range of 0.1-3 ng/mL. The antibody does not bind Spike RBD of WT (Cat. No. SPD-C52H1), Alpha (Cat. No. SPD-C52Hn), Beta (Cat. No. SPD-C52Hp), Gamma (Cat. No. SPD-C52Hr) and Omicron (Cat. No. SPD-C522e) (QC tested).

Detection of Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 by ELISA Assay

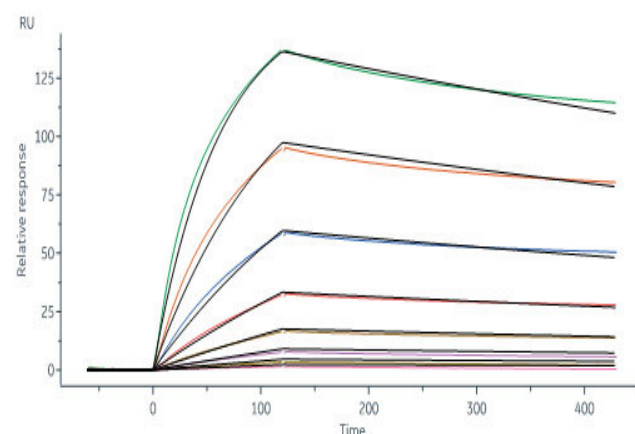


Immobilized SARS-CoV-2 Spike Trimer (Delta, Cat. No. SPN-C52He) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) (Cat. No. SPD-M110) with a linear range of 0.1-3 ng/mL. The antibody does not bind spike protein of WT (Cat. No. SPN-C52H7), Alpha (Cat. No. SPN-C52H6), Beta (Cat. No. SPN-C52Hk), Gamma (Cat. No. SPN-C52Hg) and Omicron (Cat. No. SPN-C52Hz) (Routinely tested).

Bioactivity-SPR



Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) (Cat. No. SPD-M110) captured on CM5 chip via Anti-mouse antibodies surface can bind SARS-CoV-2 Spike RBD (L452R, T478K), His Tag (Cat. No. SPD-C52Hh) with an affinity constant of 3.29 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).



Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (AS110) (Delta Specific) (Cat. No. SPD-M110) captured on CM5 chip via Anti-mouse antibodies surface can bind SARS-CoV-2 Spike Trimer, His Tag (Cat. No. SPN-C52He) with an affinity constant of 5.59 nM as determined in a SPR assay (Biacore 8K) (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 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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