

Description

Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (AM268) (SPD-M268) is isolated from a SARS-CoV-2 infected patient and is recombinantly produced from human 293 cells (HEK293).

Isotype

Human IgG1/kappa

Specificity

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

Application

This antibody can be paired with other Anti-SARS-CoV-2 Spike S1 antibodies to detect SARS-CoV-2 Spike S1 protein in sandwich ELISA or LFA assay.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 . Normally trehalose is added as protectant before lyophilization.

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

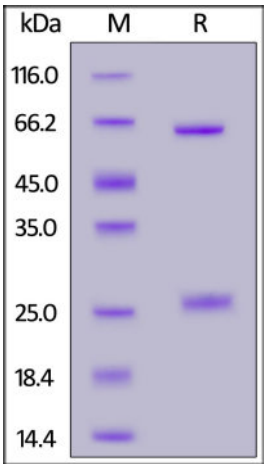
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

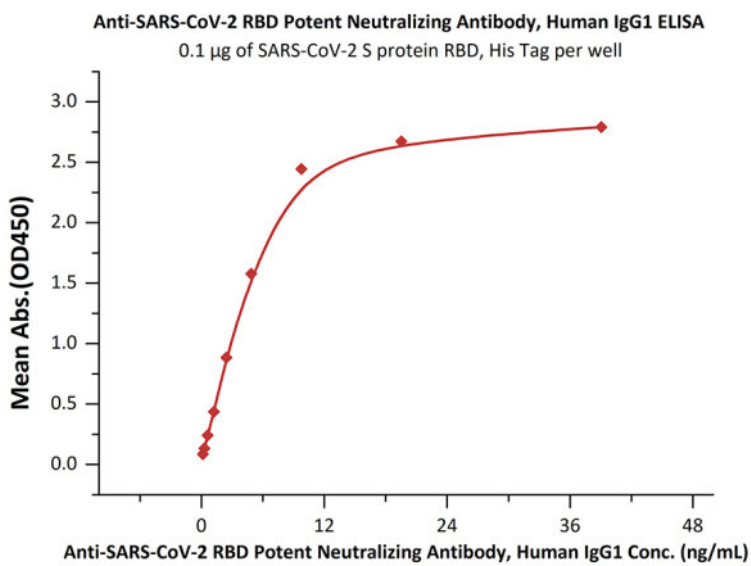
- For long term storage, the product is stable for up to 3 years at -70°C from date of receipt;
- For short term storage, the product is stable for up to 12 months at 2-8°C from date of receipt.

SDS-PAGE

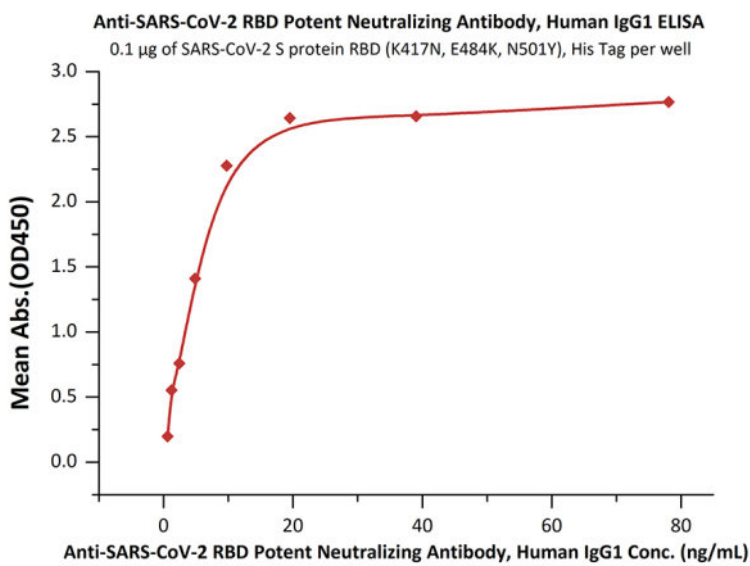


Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (AM268) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

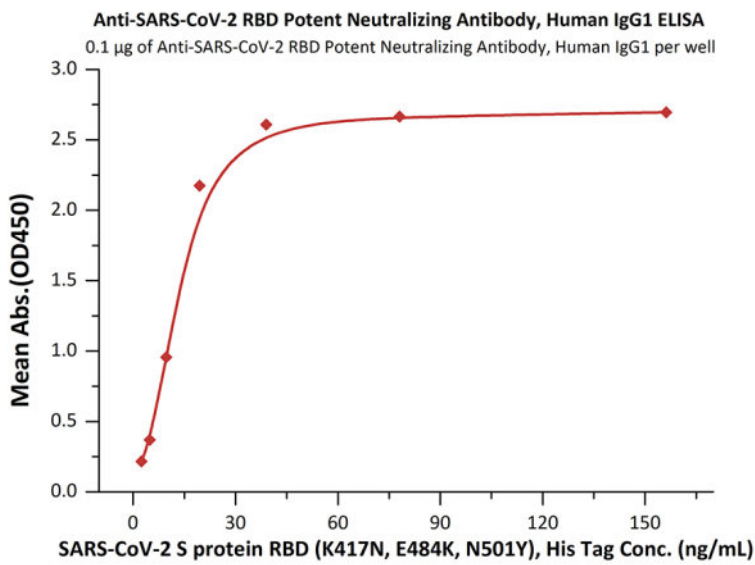
Bioactivity-ELISA



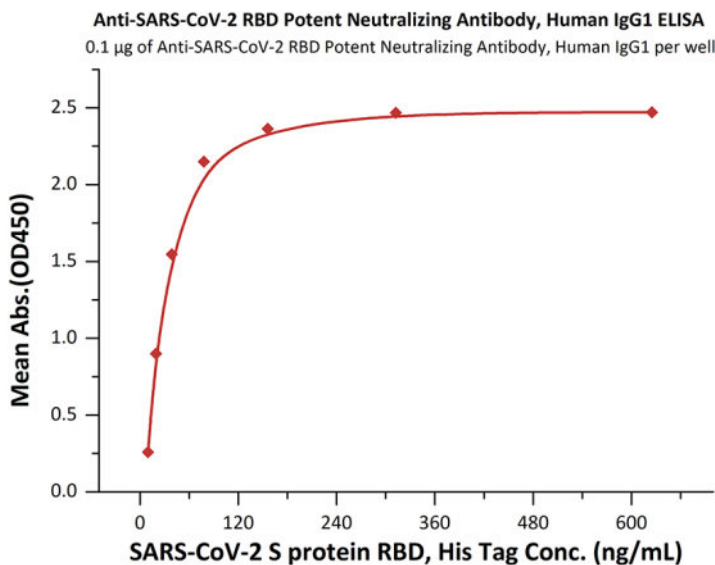
Immobilized SARS-CoV-2 S protein RBD, His Tag (Cat. No. SPD-C52H3) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (Cat. No. SPD-M268) with a linear range of 0.6-10 ng/mL (QC tested).



Immobilized SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (Cat. No. SPD-C52Hp) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (Cat. No. SPD-M268) with a linear range of 0.6-10 ng/mL (Routinely tested).



Immobilized Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (Cat. No. SPD-M268) at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD (K417N, E484K, N501Y), His Tag (Cat. No. SPD-C52Hp) with a linear range of 2-20 ng/mL (Routinely tested).



Immobilized Anti-SARS-CoV-2 RBD Potent Neutralizing Antibody, Human IgG1 (Cat. No. SPD-M268) at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 S protein RBD, His Tag (Cat. No. SPD-C52H3) with a linear range of 10-39 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 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.

References

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.