Source

Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgA2 (AM130) (SPD-M196b), originally from mouse immunized with recombinant SARS-CoV-2 Spike RBD protein, is recombinantly expressed from HEK293 cells.

Isotype

Human IgA2/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.

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.

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

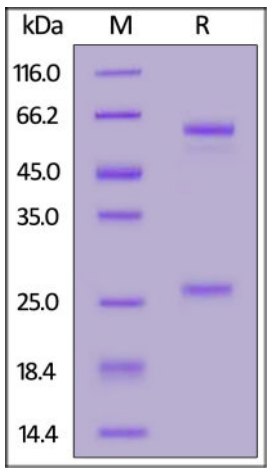
After reconstitution, this product is stable after storage at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

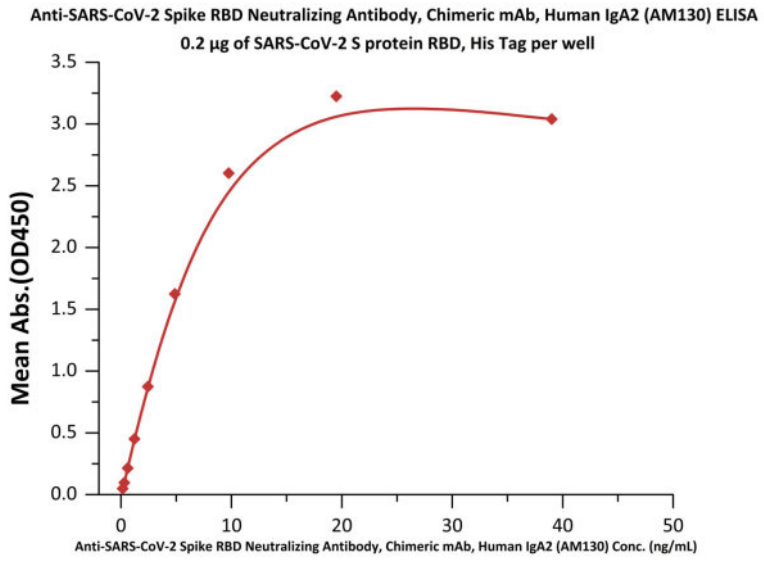
- For long term storage, the product is stable for up to 3 years at -70°C from date of receipt;
- For short term storage, the product is stable for up to 12 months at 2-8°C from date of receipt.

SDS-PAGE



Anti-SARS-CoV-2 Spike RBD
Antibody, Chimeric mAb, Human IgA2 (AM130) 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-C52H1) at 2 μg/mL (100 μL/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Chimeric mAb, Human IgA2 (AM130) (Cat. No. SPD-M196b) with a linear range of 0.2-4.8ng/mL (QC 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

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