Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) (MALS verified)

Catalog # SPN-M551

Source

Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) is isolated from a Spike protein infected Mouse and is recombinantly produced from human 293 cells (HEK293)

Clone

9A5E10

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Reactivity

Virus

Immunogen

Recombinant SARS-CoV-2 Spike Trimer Protein (BA.4/Omicron) erived from human 293 cells.

Specificity

This product is a specific antibody specifically reacts with Spike protein.

Application

Application	Recommended Usage
ELISA	0.2-50 ng/mL

Purity

>90% 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

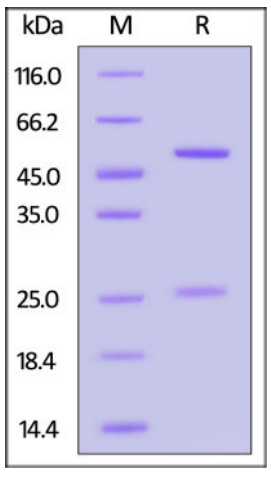
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

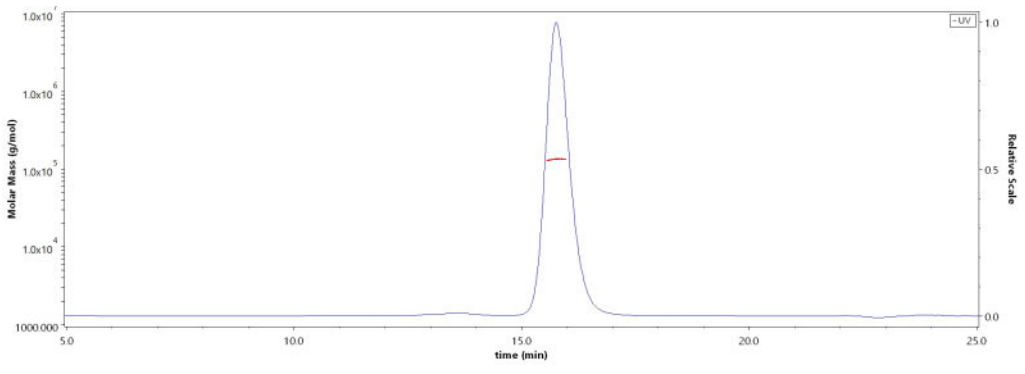
This product is stable after storage at:

- -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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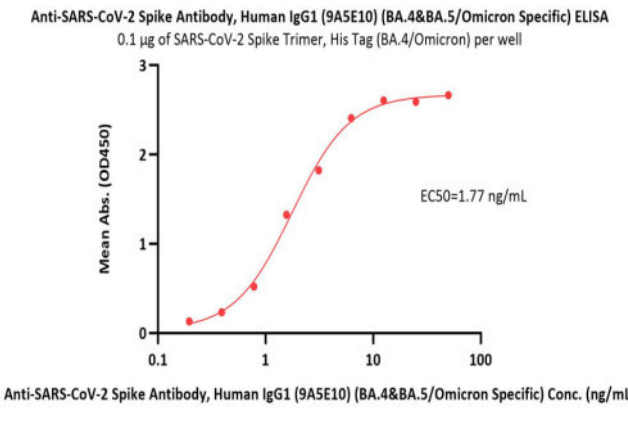
Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

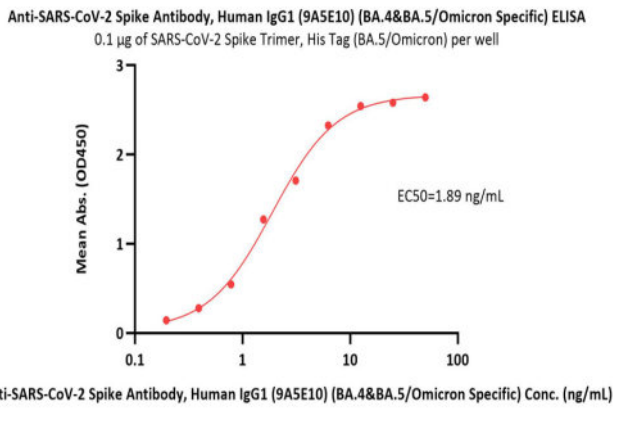
The purity of Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) (Cat. No. SPN-M551) is more than 90% and the molecular weight of this protein is around 130-150 kDa verified by SEC-MALS.

Report

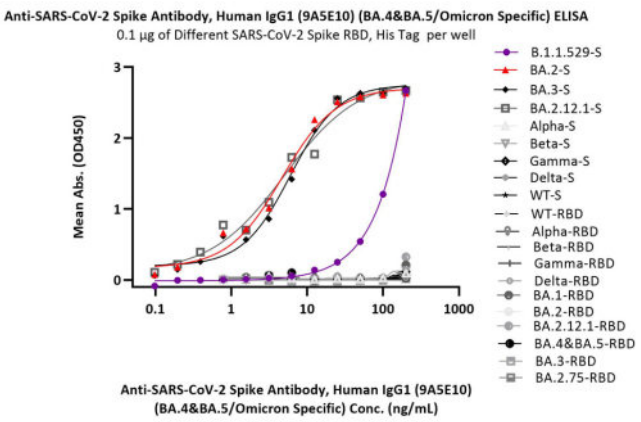
Bioactivity-ELISA



Immobilized SARS-CoV-2 Spike Trimer, His Tag (BA.4/Omicron) (Cat. No. SPN-C5229) at 1 μg/mL (100 μL/well) can bind Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) (Cat. No. SPN-M551) with a linear range of 0.2-6 ng/mL (QC tested).



Immobilized SARS-CoV-2 Spike Trimer, His Tag (BA.5/Omicron) (Cat. No. SPN-C522e) at 1 μg/mL (100 μL/well) can bind Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) (Cat. No. SPN-M551) with a linear range of 0.2-6 ng/mL (QC tested).



Immobilized Different SARS-CoV-2 Spike protein, His Tag at 1 μg/mL (100 μL/well) can bind Anti-SARS-CoV-2 Spike Antibody, Human IgG1 (9A5E10) (BA.4&BA.5/Omicron Specific) (Cat. No. SPN-M551) with a linear range of 0.1-13 ng/mL (Routinely tested).

Background

It's been reported that SARS-CoV-2 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