

Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) (MALS verified)

Catalog # SPD-M540



Source

Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) is isolated from a Spike RBD infected Mouse and is recombinantly produced from human 293 cells (HEK293)

Clone

2G7F5

Isotype

Human IgG1 | Human Kappa

Conjugate

Unconjugated

Antibody Type

Recombinant Monoclonal

Immunogen

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

Specificity

This product can broadly reacts with SARS-CoV-2 Spike protein of WT and variant.

Application

Application	Recommended Usage
ELISA	0.1-100 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

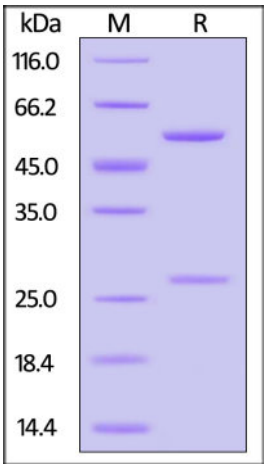
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

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:

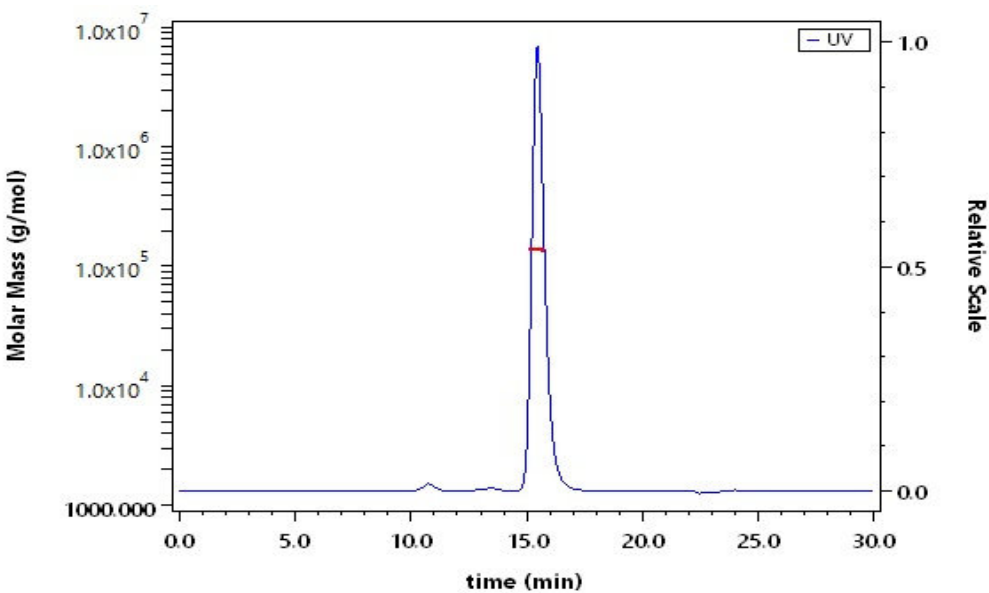
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



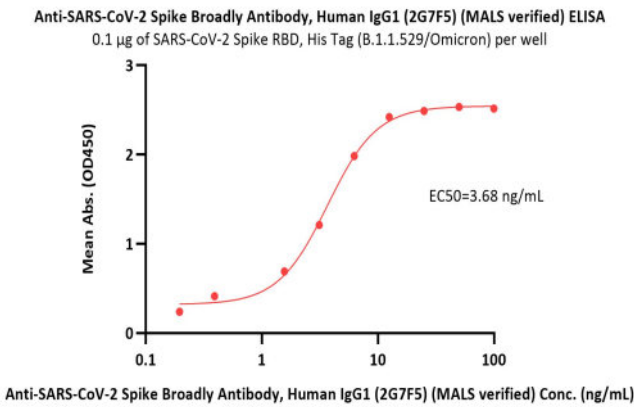
Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS

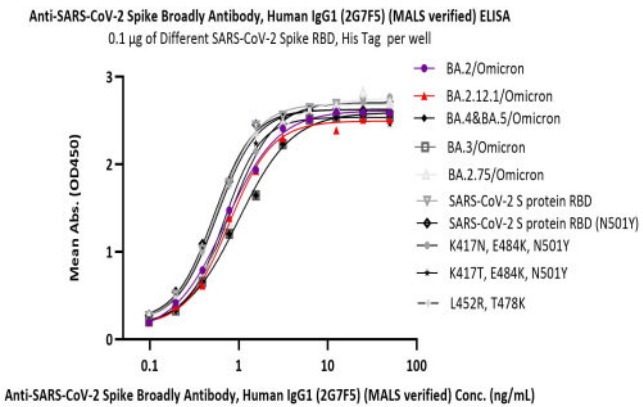


The purity of Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) (Cat. No. SPD-M540) is more than 90% and the molecular weight of this protein is around 130-150 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA



Immobilized SARS-CoV-2 Spike RBD, His Tag (B.1.1.529/Omicron) (Cat. No. SPD-C522e) at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) (MALS verified) (Cat. No. SPD-M540) with a linear range of 0.1-6 ng/mL (QC tested).



Immobilized Different SARS-CoV-2 Spike RBD, His Tag at 1 µg/mL (100 µL/well) can bind Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) (MALS verified) (Cat. No. SPD-M540) with a linear range of 0.1-3 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.

