

**Source**

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

**Isotype**

Human IgG1/kappa

**Specificity**

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

**Application**

ELISA

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**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**

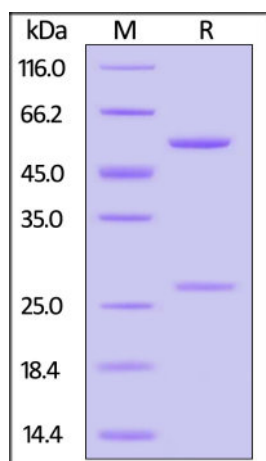
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

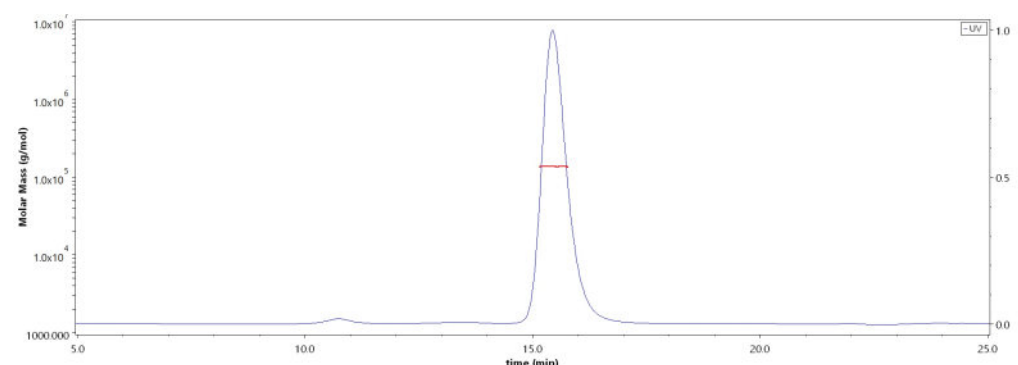
**SDS-PAGE**



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

**Bioactivity-Elisa**

**SEC-MALS**

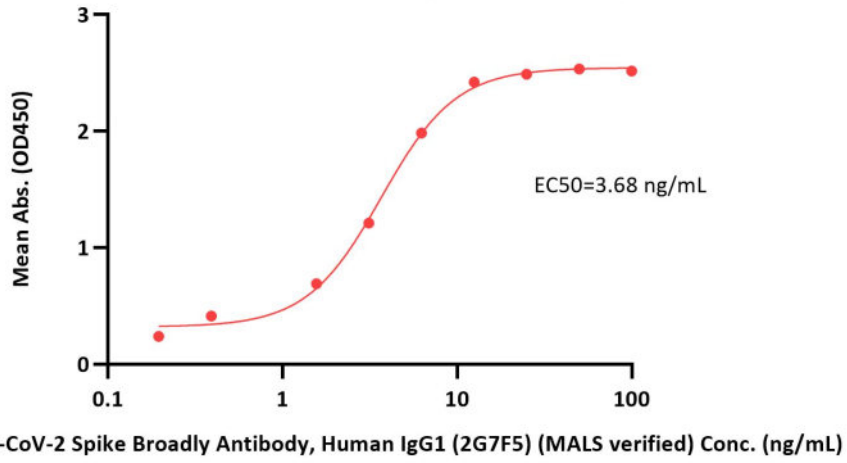


The purity of Anti-SARS-CoV-2 Spike Broadly Antibody, Human IgG1 (2G7F5) (MALS verified) (Cat. No. SPD-M540) is more than 90% and the molecular weight of this protein is around 130-150 kDa verified by SEC-MALS.

[Report](#)

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

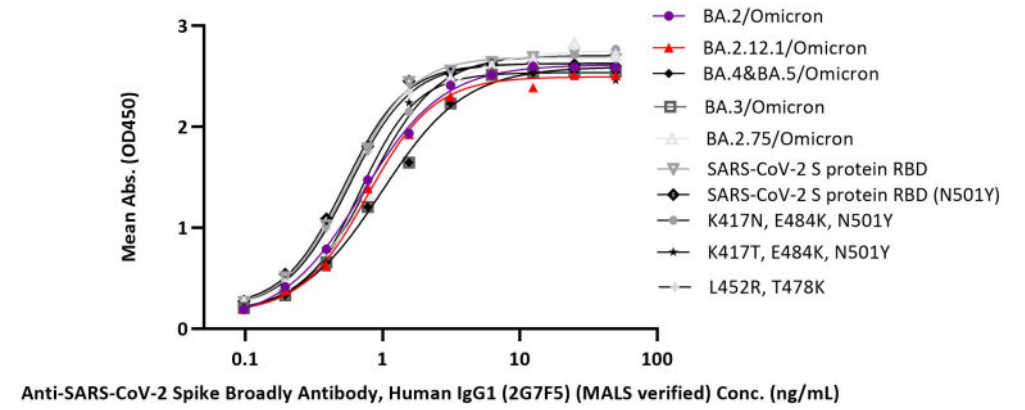
0.1 µg of SARS-CoV-2 Spike RBD, His Tag (B.1.1.529/Omicron) per well



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).

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

0.1 µg of Different SARS-CoV-2 Spike RBD, His Tag per well



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.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.