



### Source

Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (9A6A11) (XBB.1.5/Omicron Specific) is isolated from a Spike RBD infected Mouse and is recombinantly produced from human 293 cells (HEK293)

### Isotype

Mouse IgG1/kappa

### Specificity

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

### Application

ELISA

### Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Endotoxin

Less than 1.0 EU per  $\mu\text{g}$  by the LAL method.

### Formulation

Lyophilized from 0.22  $\mu\text{m}$  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

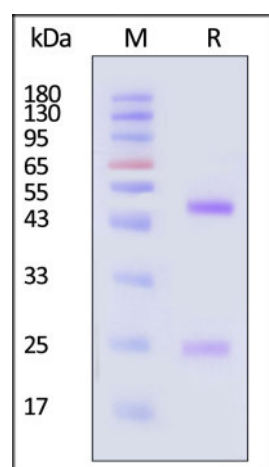
For long term storage, the product should be stored at lyophilized state at  $-20^{\circ}\text{C}$  or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- $-20^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  for 12 months in lyophilized state;
- $-70^{\circ}\text{C}$  for 3 months under sterile conditions after reconstitution.

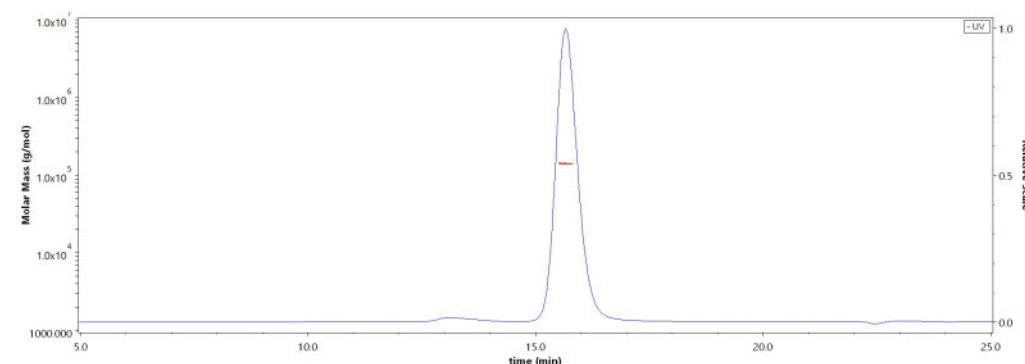
### SDS-PAGE



Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (9A6A11) (XBB.1.5/Omicron Specific) on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

### Bioactivity-Elisa

### SEC-MALS

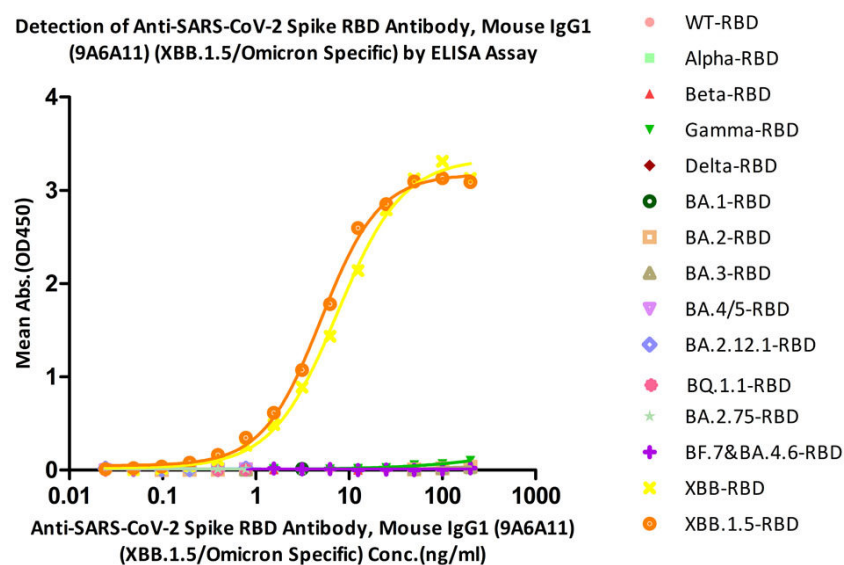


The purity of Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (9A6A11) (XBB.1.5/Omicron Specific) (Cat. No. SPD-S298) is more than 90% and the molecular weight of this protein is around 130-160 kDa verified by SEC-MALS.

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Immobilized SARS-CoV-2 Spike RBD Protein, His Tag (XBB/Omicron) (MALS verified) (Cat. No. SPD-C5241) and SARS-CoV-2 Spike RBD Protein, His Tag (XBB.1.5/Omicron) (MALS verified) (Cat. No. SPD-C5242) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (9A6A11) (XBB.1.5/Omicron Specific) (Cat. No. SPD-S298) with a linear range of 0.195-12.5 ng/mL. The antibody does not bind Spike RBD of WT (Cat. No. SPD-C52H3), Alpha (Cat. No. SPD-C52Hn), Beta (Cat. No. SPD-C52Hp), Gamma (Cat. No. SPD-C52Hr), Delta (Cat. No. SPD-C52Hh), B.1.1.529/Omicron (Cat. No. SPD-C522e), BA.2/Omicron (Cat. No. SPD-C522g), BA.3/Omicron (Cat. No. SPD-C522i), BA.4&5Omicron (Cat. No. SPD-C522r), BA.2.12.1/Omicron (Cat. No. SPD-C522q), BA.2.75/Omicron (Cat. No. SPD-C522t), BF.7&BA.4.6/Omicron (Cat. No. SPD-C522y), BQ.1.1/Omicron (Cat. No. SPD-C5240) (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.

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