

Source

Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) is isolated from a Spike RBD infected Mouse and is recombinantly produced from Hybridoma

Isotype

Mouse IgG1/kappa

Specificity

SPD-Y77 and SPD-Y78 are all specific antibodies. SPD-Y78 specifically reacts with Spike protein without RBD region, while SPD-Y77 specifically reacts with RBD of Omicron BA.4&BA.5, BA.2.

Application

ELISA, FITC

Purity

>95% as determined by SDS-PAGE.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Supplied as 0.2 µm filtered solution in PBS, pH7.4.
Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.

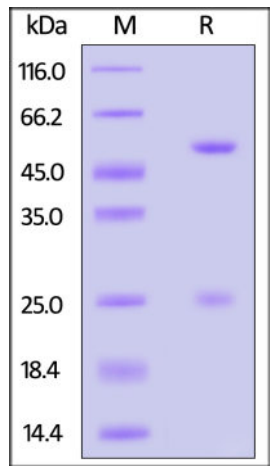
Storage

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.

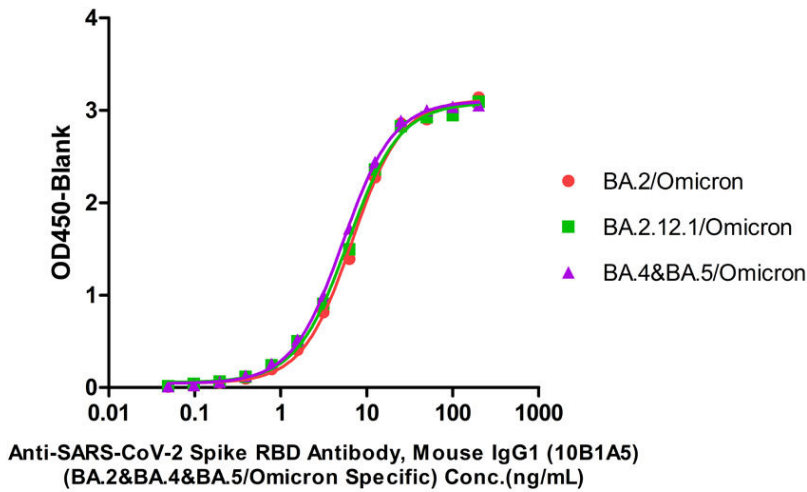
SDS-PAGE



Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

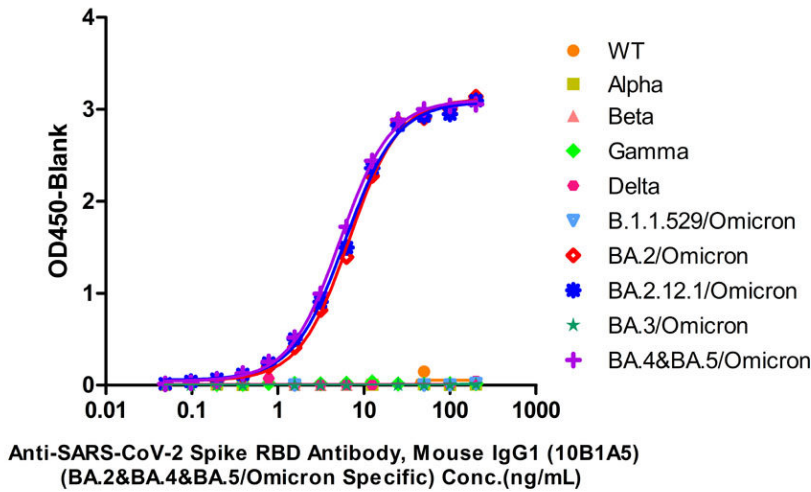
Bioactivity-Elisa

Detection Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) by ELISA Assay



Immobilized SARS-CoV-2 Spike RBD BA.2/Omicron (Cat. No. SPD-C522g), BA.2.12.1/Omicron (Cat. No. SPD-C522q) and BA.4&BA.5/Omicron (Cat. No. SPD-C522r) at 2µg/mL (100µL/well) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) (Cat. No. SPD-Y77) with a linear range of 0.40-12.5 ng/mL (QC tested).

Detection Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) by ELISA Assay



Immobilized SARS-CoV-2 Spike RBD BA.2/Omicron (Cat. No. SPD-C522g), BA.2.12.1/Omicron (Cat. No. SPD-C522q) and BA.4&BA.5/Omicron (Cat. No. SPD-C522r) can bind Anti-SARS-CoV-2 Spike RBD Antibody, Mouse IgG1 (10B1A5) (BA.2&BA.4&BA.5/Omicron Specific) (Cat. No. SPD-Y77) with a linear range of 0.40-12.5 ng/mL. The antibody does not bind SARS-CoV-2 Spike RBD 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. SPD-C522e) and BA.3/Omicron (Cat. SPD-C522i) (Routinely tested).

Background

Its 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.