

Humanized Monoclonal Antibody (IgG) against SARS-CoV-2 Spike Protein S1 subunit (S1)

Catalog Number: LT562A14

Size: 1 mg

Type: Genetically engineered recombinant monoclonal IgG antibody

Introduction

The SARS-CoV-2 glycosylated spike (S) protein highly exposed on the viral surface is a major determinant for virus binding and invasion into host cells, which is a main target for neutralization antibody. The receptor-binding domain in SARS-CoV-2 S1 protein is responsible for binding to human and bat angiotensin-converting enzyme 2 (ACE2) receptors.

Production:

The cDNA encoding the highly variable region of the antibody recognizing S1 from mammalian cells were identified by phage display library, fused with the Fc fragment of human IgG1, and expressed in Chinese Hamster Ovary (CHO) cells.

Formulation, Reconstitution, and Storage:

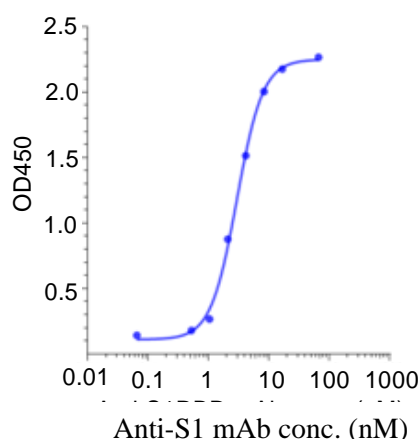
Lyophilized from sterile PBS, pH 7.4. Lyophilized protein can be stored at 2°C to 8°C for short-term, and at -20°C to -80°C for long term. For reconstitution, add 100 µl of deionized water, mix gently and incubate the reconstituted product for 10 minutes at room temperature prior to use. Reconstituted protein should be kept at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

Application/Usage:

ELISA and other applications. Optimal concentration/dilution should be determined by the end user.

Affinity Assay:

The binding between immobilized S1 and the anti-SARS-CoV-2 S1.



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