

RM17582

Leader in Biomolecular Solutions for Life Science



# Anti-SARS-CoV-2 Spike S1 Control Antibody, Chimeric MAb

Catalog No.: RM17582

## Basic Information

### Catagory

Matched Antibody Pair

### Applications

Indirect ELISA

## Product Information

### Ig Type

Chimeric MAb

### Purification

Affinity purification

### Endotoxin Level

### Storage

Store unopened kit at 2-8 °C for 1 week. If more than one week, please keep the components of the kit according to the instructions. Do not use past kit expiration date.

**Avoid repeated freeze-thaw cycles.**

### Formulation

Supplied as a 0.2um filtered solution in PBS with 0.1% BSA, pH 7.4.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. The spike is essential for both host specificity and viral infectivity. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It's been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.

## Immunogen Information

### Immunogen

HK293 derived SARS-COV-2 SPIKE S1 <br> Val16-Arg685 <br> Accession #YP\_009724390.1

## Cross-Reactivity

2019-nCoV Coronavirus spike <br> Has cross-reactivity in ELISA with <br> SARS-CoV Spike S1 Protein (Cat# RP01265) <br> SARS-CoV Spike RBD Protein (Cat# RP01258) <br> No cross-reactivity in ELISA with <br> MERS-CoV Spike S1 Protein

## Assay Applications