# SARS-COV-2 Spike RBD Protein Antibody (DET )

**Catalog NO.: RM17609**

## Basic Information

**Catalog No**
RM17609

**Catagory**
Primary antibody(DET)

**Application**
ELISA

## Product Information

**Ig Type**
Rabbit IgG

**Purification**
Affinity purification

**Endotoxin Level**

**Storage**
This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. **Avoid repeated freeze-thaw cycles.**

**Formulation**
Supplied as a 0.2um filtered solution in PBS,pH 7.4 containing Antibody at a concentration of 1mg/mL.

## Contact


| order@abclonal.com
| service@abclonal.com
| 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 RBD
Arg319-Phe541
Accession #YP_009724390.1

## Cross-Reactivity

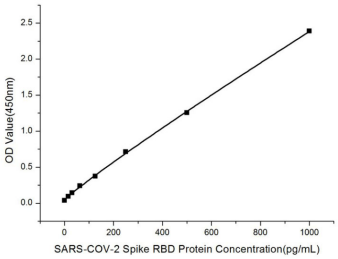
2019-nCoV Coronavirus spike
Has cross-reactivity in ELISA and WB with
SARS-CoV-2 Spike S1 (His Tag) (Cat# RP01265)

## Assay Applications

SARS-CoV-2 Spike RBD Sanwich ELISA Immunoassay

| | Recommended Concentration | Sample |
|---|---|---|
| **ELISA Capture** | 1-4ug/mL | SARS-COV-2 Spike RBD Protein Antibody (CAP) (Cat. No. RM17608) |
| **ELISA Detection** | 0.03-0.15ug/mL | SARS-COV-2 Spike RBD Protein Antibody (DET) (Cat. No. RM17609) |
| **Standard** | 15.6-1000pg/mL | Recombinant SARS-COV-2 Spike RBD Protein with His tag(Cat. No. RP01258) |

## Validation Data




This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.