

Rabbit anti-SARS-CoV-2 Spike S1 Protein mAb(CAP)

Catalog No.: RM17611

Basic Information

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RM17611

Catagory
Elisa Antibody Kit

Application
ELISA

Product Information

Ig Type
Rabbit IgG

Purification
Affinity purification

Endotoxin Level
< 1.0 EU/μg of the protein by LAL method.

Storage
This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C.
Preservative:0.1%Braveds MB-1
Avoid repeated freeze-thaw cycles.

Formulation
Supplied as a 0.2um filtered solution in PBS with 0.1%Braveds MB-1,PH 7.4.

Contact

 | order@abclonal.com
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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
Val16-Arg685
Accession #YP_009724390.1

Cross-Reactivity

Has cross-reactivity in ELISA with
SARS-CoV Spike S1 Protein (Cat# RP01265)
SARS-CoV Spike RBD Protein (Cat# RP01258)
No cross-reactivity in ELISA with
MERS-CoV Spike S1 Protein

Assay Applications

SARS-CoV-2 Spike S1 Sanwich ELISA Immunoassay

	Recommended Concentration	Sample
ELISA Capture	1-4ug/mL	Rabbit anti-SARS-CoV-2 Spike S1 Protein mAb(CAP) (Cat. No. RM17611)
ELISA Detection	0.05-0.2ug/mL	Rabbit anti-SARS-CoV-2 Spike S1 Protein mAb(DET) (Cat. No. RM17612)
Standard	156-10000pg/mL	Recombinant SARS-COV-2 Spike S1 Protein with His tag(Cat. No. RP01262)