

Datasheet for ABIN1031201

anti-SARS-CoV Spike antibody (Intermediate Domain 2)



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1 Image

Overview

Quantity:	0.1 mg
Target:	SARS-CoV Spike (SARS-CoV S)
Binding Specificity:	Intermediate Domain 2
Reactivity:	SARS Coronavirus (SARS-CoV)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV Spike antibody is un-conjugated
Application:	ELISA

Product Details

Immunogen:	Anti-SARS-CoV Spike antibody was raised against a peptide corresponding to 17 amino acids near the center of SARS-CoV Spike glycoprotein. The immunogen is located within amino acids 550-600 of SARS-CoV Spike.
Isotype:	IgG
Predicted Reactivity:	Predicted reactivity based on immunogen sequence: SARS-CoV2 Spike protein: (identity 65%, homology 88%)
Purification:	Affinity chromatography purified via peptide column

Target Details

Target:	SARS-CoV Spike (SARS-CoV S)
Alternative Name:	SARS-CoV Spike (SARS-CoV S Products)

Target Details

Target Type:	Viral Protein
Background:	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus. The disease is the cause of the 2019–20 coronavirus outbreak. The structure of 2019-nCoV consists of the following: a Spike protein (S), hemagglutinin-esterase dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleocapsid protein (N) and RNA. Coronavirus invades cells through Spike (S) glycoproteins, a class I fusion protein. It is the major viral surface protein that coronavirus uses to bind to the human cell surface receptor. It also mediates the fusion of host and viral cell membrane, allowing the virus to enter human cells and begin infection. The spike protein is the major target for neutralizing antibodies and vaccine development. The protein modeling suggests that there is strong interaction between Spike protein receptor-binding domain and its host receptor angiotensin-converting enzyme 2 (ACE2), which regulate both the cross-species and human-to-human transmissions of COVID-19. The recent study has shown that the SARS-CoV-2 spike protein binds ACE2 with higher affinity than SARS-CoV spike protein .
Gene ID:	1489668

NCBI Accession: [P59594](#)

Application Details

Application Notes:	SARS-CoV Spike antibody can be used for the detection of SARS-CoV Spike protein in ELISA. It will detect 2 ng of free peptide at 1 µg/mL.
Restrictions:	For Research Use only

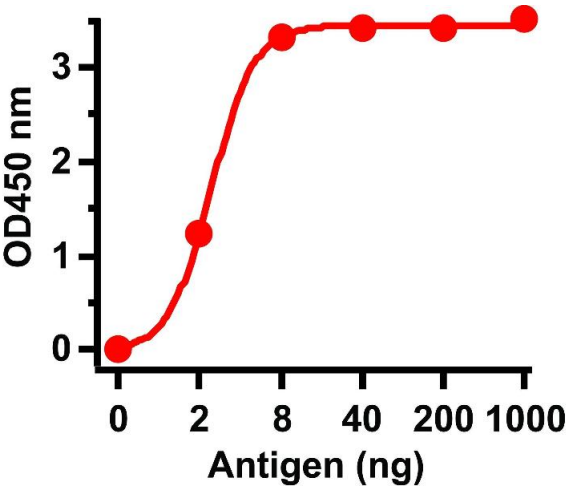
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	The antibody is supplied in PBS containing 0.02% sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Handling

Storage:	4 °C/-20 °C
Storage Comment:	The antibody can be stored at 4 °C for three months and -20 °C, stable for up to one year.
Expiry Date:	12 months

Images



ELISA

Image 1. ELISA Test Antibodies: SARS-CoV Spike Antibody, ABIN1031201 (1 µg/mL). A sandwich ELISA was performed using immunogen as coating antigen and the anti-SARS-CoV Spike antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 2 ng/mL to 1000 ng/mL.