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Datasheet for ABIN6990131

## anti-SARS-CoV-2 Spike S2 antibody (AA 900-950)

### Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 Spike S2
Binding Specificity:	AA 900-950
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 Spike S2 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

### Product Details

Immunogen:	Anti-SARS-CoV-2 (COVID-19) Spike antibody was raised against a peptide corresponding to 16 amino acids near the center terminus of SARS-CoV-2 (COVID-19) Spike glycoprotein. The immunogen is located within 900-950 amino acids of SARS-CoV-2 (COVID-19) Spike protein.
Isotype:	IgG
Purification:	SARS-CoV-2 (COVID-19) Spike Antibody is affinity chromatography purified via peptide column.

### Target Details

Target:	SARS-CoV-2 Spike S2
Abstract:	<a href="#">SARS-CoV-2 Spike S2 Products</a>
Target Type:	Viral Protein

## Target Details

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**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 (1). The disease is the cause of the 2019-20 coronavirus outbreak (2). 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 (3). The spike protein is the major target for neutralizing antibodies and vaccine development (4). 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 (5). The recent study has shown that the SARS-CoV-2 spike protein binds ACE2 with higher affinity than SARS-CoV spike protein (6).

**Gene ID:** 43740568

## Application Details

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**Application Notes:** WB: 1 µg/mL.

Antibody validated: SARS-CoV-2 (COVID-19) Spike antibody can be used for the detection of SARS-CoV-2 (COVID-19) Spike protein in WB. It will detect 2 ng of free peptide at 1 µg/mL. All other applications and species not yet tested.

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 mg/mL

**Buffer:** SARS-CoV-2 (COVID-19) Spike 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.

**Storage:** -20 °C, 4 °C

## Handling

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Storage Comment: SARS-CoV-2 (COVID-19) Spike antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.