Datasheet for ABIN6990154

anti-SARS-CoV-2 Spike S1 antibody (N-Term) (Biotin)

Go to Product page

Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 Spike S1
Binding Specificity:	N-Term
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 Spike S1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Anti-SARS-CoV-2 (COVID-19) Spike S1 Antibody (biotin) was raised against a peptide corresponding to 16 amino acids near the amino terminus of SARS-CoV-2 (COVID-19) Spike S1 glycoprotein. The immunogen is located within the first 50 amino acids of SARS-CoV-2 (COVID-19) Spike S1 protein.
Isotype:	IgG
Purification:	SARS-CoV-2 (COVID-19) Spike S1 Antibody (biotin) is affinity chromatography purified via peptide column.

Target Details

Target:	SARS-CoV-2 Spike S1
Abstract:	SARS-CoV-2 Spike S1 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 (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-esterease dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleoclapid 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

Application Notes:	SARS-CoV-2 Spike S1 antibody can be used for as detection antibody in Sandwich Elisa at 1 µ, g/mL.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	SARS-CoV-2 (COVID-19) Spike S1 Antibody (biotin) 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
Storage Comment:	SARS-CoV-2 (COVID-19) Spike S1 Antibody (biotin) can be stored at 4°C for three months and -

Handling

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.