

Datasheet for ABIN7266506

anti-Coronavirus Spike Glycoprotein antibody

5 Images

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Overview

Quantity:	100 µL
Target:	Coronavirus Spike Glycoprotein (CoV S)
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Coronavirus Spike Glycoprotein antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Purpose:	SARS-CoV-2 Spike Rabbit pAb
Immunogen:	A synthetic peptide of SARS-CoV-2 Spike.
Isotype:	IgG
Cross-Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	Coronavirus Spike Glycoprotein (CoV S)
Alternative Name:	Spike (CoV S Products)
Target Type:	Viral Protein

Target Details

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.,Spike

Gene ID: 43740568

UniProt: [P0DTC2](#)

Application Details

Application Notes: ELISA,1:40000-1:160000,WB,1:500 - 1:2000,IF,1:50 - 1:200,IP,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

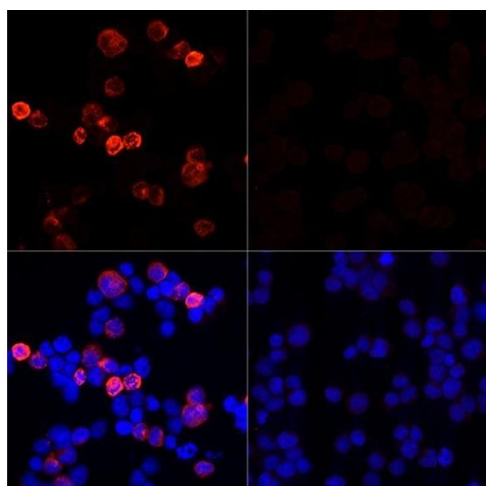
Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

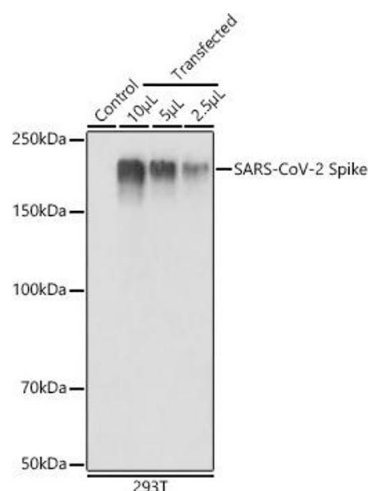
Storage: -20 °C

Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



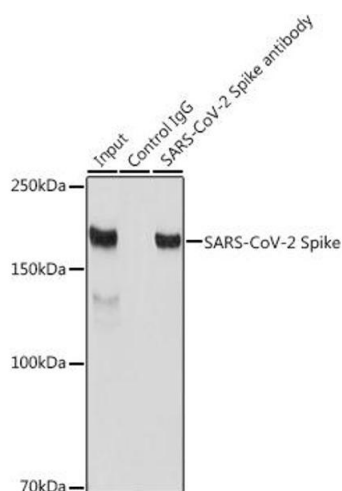
Immunofluorescence

Image 1. Immunofluorescence analysis of 293T cells transfected with SARS-CoV-2 Spike protein and untreated 293T cells use SARS-CoV-2 Spike Rabbit pAb (ABIN7266506) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of 293T cells, using SARS-CoV-2 Spike antibody (ABIN7266506) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



Immunoprecipitation

Image 3. Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Spike antibody (ABIN7266506). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike antibody (ABIN7266506) at a dilution of 1:1000.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7266506.