

## SARS-CoV-2 Spike RBD polyclonal antibody

Catalog: BS80241

Host: Rabbit

Reactivity: SARS-CoV-2

### 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.

### Product:

1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

30kDa

### Swiss-Prot:

P0DTC2

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

ELISA, 1:50000-1:200000|WB, 1:500 - 1:2000|IF/ICC, 1:50 - 1:200|IP, 1:50 - 1:200

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long

term. Avoid freeze-thaw cycles.

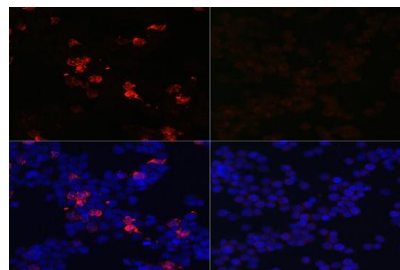
### Modification:

Unmodification

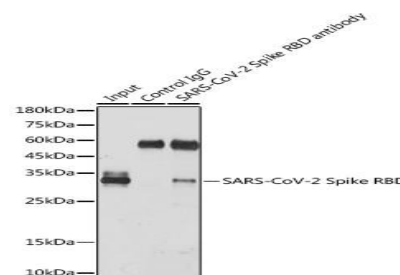
### DATA:

Western blot analysis of extracts of normal 293T cells and 293T transfected with Spike RBD Protein, using SARS-CoV-2 Spike RBD antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 5s.

Immobilized Recombinant SARS-COV-2 Spike RBD Protein at 1µg/mL can bind SARS-CoV-2 Spike RBD Rabbit pAb with a linear range of 0.78-50ng/mL.



Immunofluorescence analysis of 293T-RBD and 293T cells using SARS-CoV-2 Spike RBD Rabbit pAb at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300ug extracts of 293T cells using 3ug SARS-CoV-2 Spike RBD antibody. Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike RBD antibody at a dilution of 1:3000.

### Note:

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## PRODUCT DATA SHEET

Bioworld Technology, Inc.

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For research use only, not for use in diagnostic procedure.

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