

## Product datasheet for **TA160070**

### SARS-CoV-2 Spike Protein Rabbit Polyclonal Antibody

#### Product data:

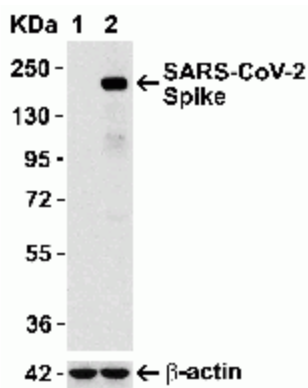
Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1 ug/ml WB: 1 ug/ml
Reactivity:	SARS-CoV, SARS-CoV-2
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The antibody was raised against a peptide corresponding to 20 amino acids within the last 50 amino acids of SARS-CoV-2 Spike glycoprotein. Predicted reactivity based on immunogen sequence: SARS-CoV Spike proteins: 100%
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	S Protein
Database Link:	<a href="#">QHD43416</a> <a href="#">Entrez Gene 43740568 SARS-CoV-2 P0DTC2</a>



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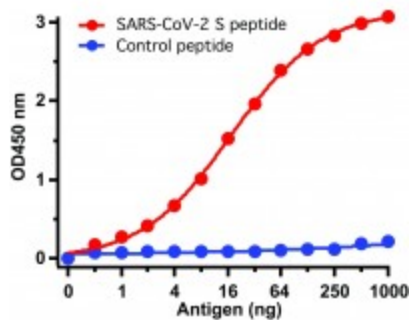
**Background:**

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. 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.

**Product images:**


Overexpression Validation in Spike Transfected 293 Cells

Loading: 15  $\mu$ g per lane of 293 cell lysate.  
 Antibodies: SARS-CoV-2 Spike (1  $\mu$ g/mL), 1h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: WT 293 cells Lane 2: Spike overexpressed 293 cells.



ELISA Test

Antibodies: SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody, TA160070 (1  $\mu$ g/mL). A direct ELISA was performed using antigen or control peptide as coating antigen and the anti-SARS-CoV-2 (COVID-19, 2019-nCoV) Spike antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.5 ng/mL to 1000ng/mL.