

## Product datasheet for **TA381940S**

### S Protein Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	Dot, ELISA, ICC/IF, IP, WB
Recommended Dilution:	WB, 1:500 - 1:1000 IF/ICC, 1:100 - 1:500 IP, 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells ELISA, 1:20000-1:80000
Reactivity:	SARS-CoV-2, Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Formulation:	PBS with 0.05% proclin300, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C. Avoid freeze / thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	141kDa
Gene Name:	S Protein
Database Link:	<a href="#">Entrez Gene 43740568 SARS-CoV-2 P0DTC2</a>

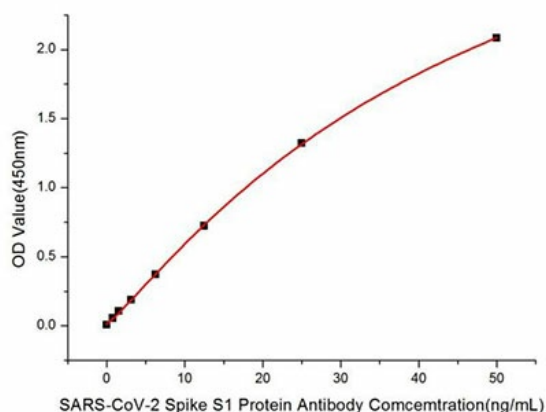


[View online »](#)

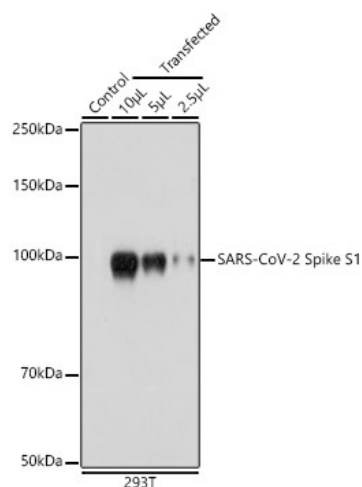
## Background:

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

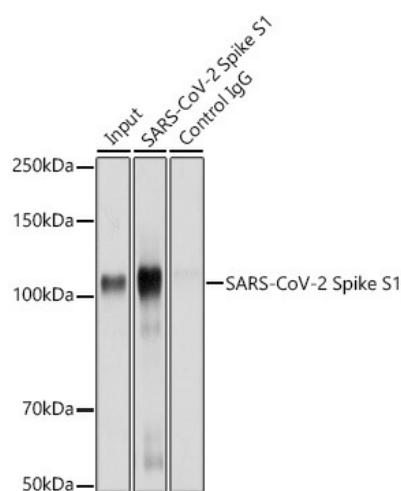
## Product images:



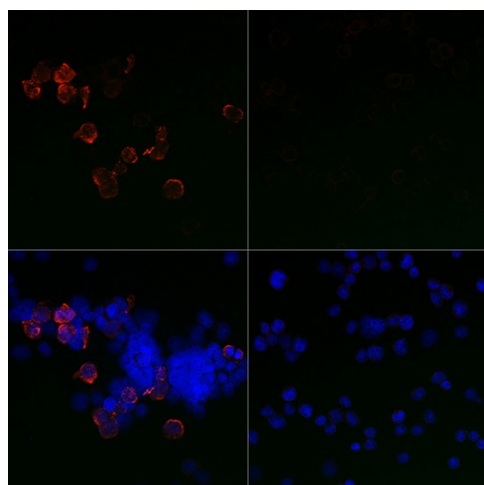
Immobilized Recombinant SARS-COV-2 Spike S1 Protein (RP01262LQ) at 1 µg/mL (100 µL/well) can bind SARS-CoV-2 Spike S1 Rabbit pAb ([TA381940]) with a linear range of 0.78-50 ng/mL.



Western blot analysis of lysates from 293T cells



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Spike S1 antibody ([TA381940]). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike S1 antibody ([TA381940]) at a dilution of 1:10000.



Immunofluorescence analysis of 293T cells transfected with SARS-CoV-2 Spike S1 fusion protein (top left) and untreated 293T cells (top right) use SARS-CoV-2 Spike S1 Rabbit pAb ([TA381940]) at dilution of 1:400 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.