

## Anti-SARS-CoV-2 Spike S2 ECD Rabbit pAb

Purified Rabbit Polyclonal Antibody

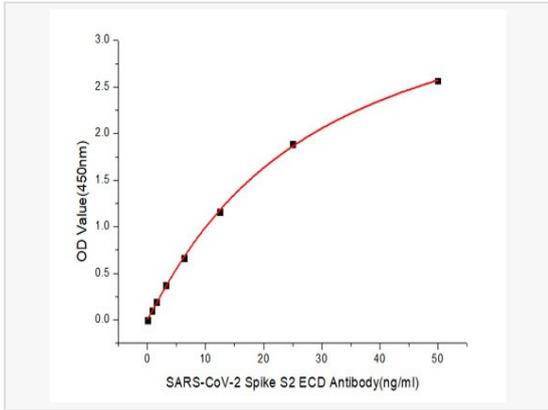
Catalog # P104547

### Product Information

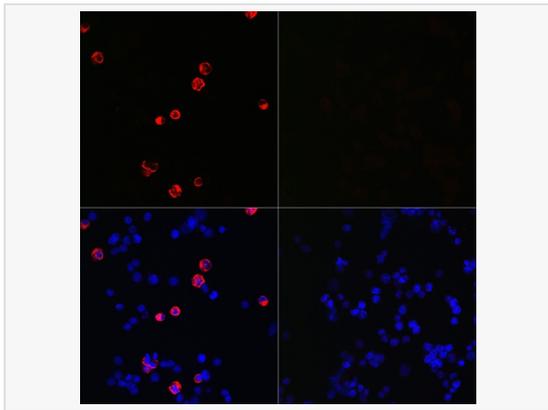
Application	WB, DB, IF (Cell)/ICC, IP, ELISA
Reactivity	Human, SARS-CoV-2
Dilution	WB 1:2,000~1:6,000; DB 1:500~1:2,000; IF 1:50~1:200; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 686-1214 of coronavirus Spike S2 ECD (YP_009724390.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-SARS-CoV-2 Spike S2 ECD Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

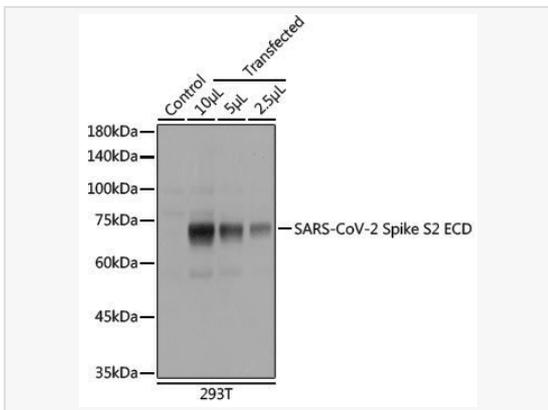
Synonyms	spike glycoprotein; SARS-CoV-2 Spike S2 ECD.
Calculated MW	Calculated MW: 141 kDa; Observed MW: 75 kDa
Uniprot ID	P0DTC2
Gene ID	43740568
Background	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus 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.



Immobilized Recombinant SARS-COV2 S-ECD-PFS Protein at 1µg/mL (100µL/well) can bind SARS-CoV-2 Spike S2 ECD Rabbit pAb (P104547) with a linear range of 3.12-50ng/mL.



Immunofluorescence analysis of 293T cells transfected with SARS-CoV-2 Spike S2 ECD fusion protein (top left) and untreated 293T cells (top right) use SARS-CoV-2 Spike S2 ECD Rabbit pAb (P104547) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western blot analysis of extracts of normal 293T cells 293T transfected with Spike S2 ECD Protein, using SARS-CoV-2 Spike S2 ECD Rabbit pAb (P104547) at 1:5,000 dilution.

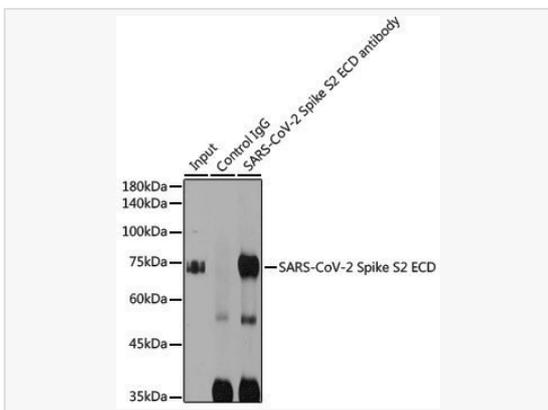
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Enhanced Kit.

Exposure time: 1s.



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Spike S2 ECD antibody (P104547). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike S2 ECD antibody (P104547) at a dilution of 1:5000.