

Anti-SARS-CoV-2 Spike S1 Rabbit pAb

Purified Rabbit Polyclonal Antibody

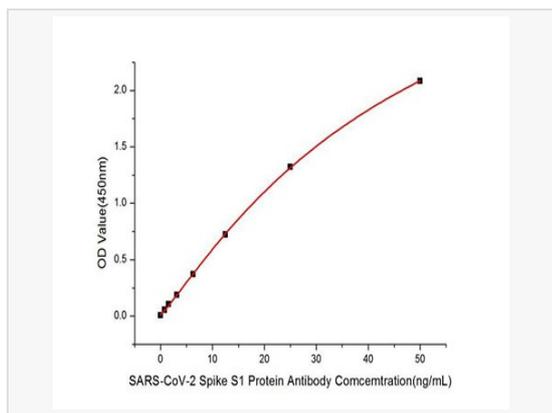
Catalog # P104362

Product Information

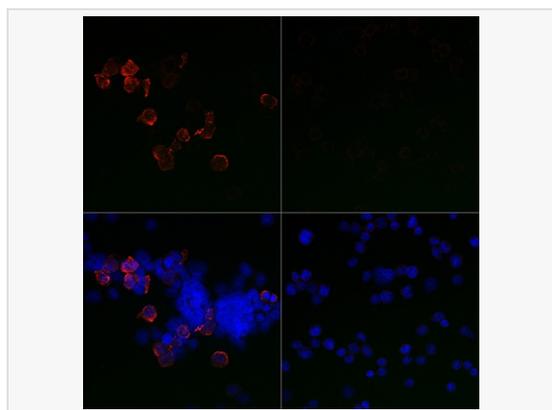
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| Application | WB, IF (Cell)/ICC, IP, ELISA |
| Reactivity | Human, SARS-CoV-2 |
| Dilution | WB 1:500~1:1,000; IF 1:100~1:500; IP 0.5µg-4µg antibody for 200µg-400µg extracts of whole cells; ELISA 1:20,000~1:80,000 |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | Recombinant fusion protein containing a sequence corresponding to amino acids 11-682 of coronavirus Spike S1 (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 S1 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

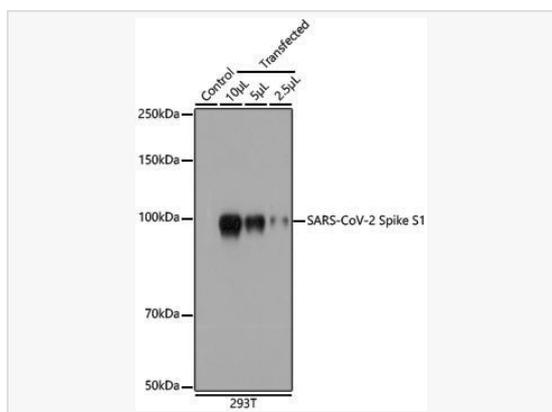
| | |
|---------------|---|
| Synonyms | spike glycoprotein; SARS-CoV-2 Spike S1. |
| Calculated MW | Calculated MW: 141 kDa; Observed MW: 110 kDa |
| Uniprot ID | P0DTC2 |
| Gene ID | 43740568 |
| Background | Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, 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. |



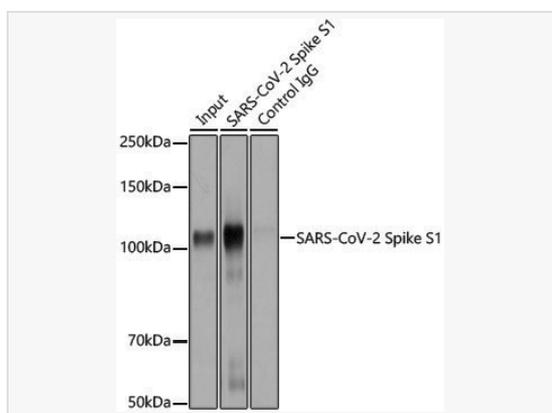
Immobilized Recombinant SARS-COV-2 Spike S1 Protein at 1µg/mL (100µL/well) can bind SARS-CoV-2 Spike S1 Rabbit pAb (P104362) with a linear range of 0.78-50ng/mL.



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 (P104362) at dilution of 1:400 (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 lysates from 293T cells, using SARS-CoV-2 Spike S1 Rabbit pAb (P104362) at 1:1,000 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 Kit. Exposure time: 1s.



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Spike S1 antibody (P104362). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike S1 antibody (P104362) at a dilution of 1:10000.