Anti-SARS-CoV-2 Spike RBD Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P104357

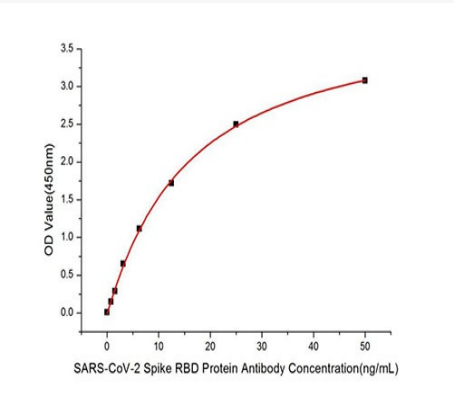
Product Information

Application	WB, IF (Cell)/ICC, IP, ELISA
Reactivity	SARS-CoV-2
Dilution	WB 1:500~1:2,000; IF 1:50~1:200; IP 0.5μg-4μg antibody for 200μg-400μg extracts of whole cells; ELISA 1:50,000~1:20,0000
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 332-550 of coronavirus Spike RBD (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 RBD Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

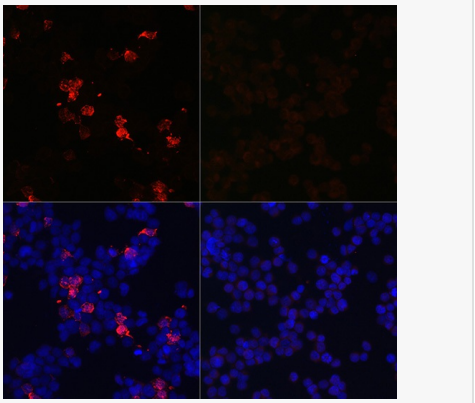
Protein Information

Synonyms	spike glycoprotein; SARS-CoV-2 Spike RBD.
Calculated MW	Calculated MW: 141 kDa; Observed MW: 30 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.

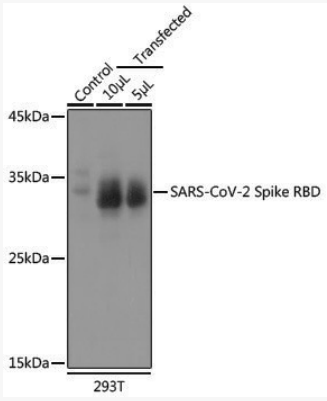
Validation Images



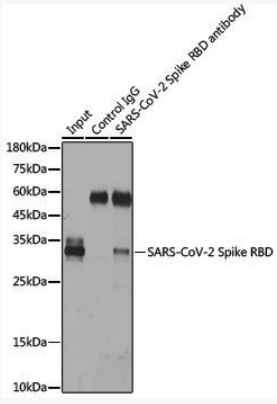
Immobilized Recombinant SARS-COV-2 Spike RBD Protein at 1μg/mL (100μL/well) can bind SARS-CoV-2 Spike RBD Rabbit pAb (P104357) with a linear range of 0.78-50ng/mL.



Immunofluorescence analysis of 293T-RBD and 293T cells using SARS-CoV-2 Spike RBD Rabbit pAb (P104357) 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 and 293T transfected with Spike RBD Protein,using SARS-CoV-2 Spike RBD Rabbit pAb (P104357) 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: 5s.



Immunoprecipitation analysis of 300 μg extracts of 293T cells using 3 μg SARS-CoV-2 Spike RBD antibody (P104357). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike RBD antibody (P104357) at a dilution of 1:3000.