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SARS-CoV-2 Spike Rabbit pAb

Catalog No.: A20137 **2 Publications**

Basic Information

Observed MW
110kDa/180kDa

Calculated MW
141kDa

Category
Primary antibody

Applications
WB,DB,IF/ICC,IP,ELISA

Cross-Reactivity
SARS-CoV-2

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.

Recommended Dilutions

WB	1:500 - 1:1000
DB	1:500 - 1:2000
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
43740568

Swiss Prot
P0DTC2

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
spike glycoprotein; SARS-CoV-2 Spike

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Contact

400-999-6126

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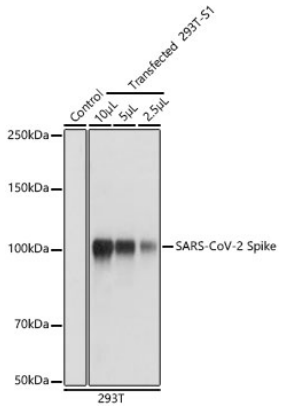
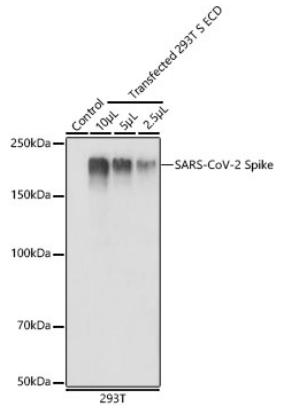
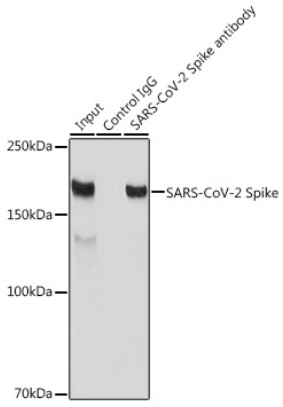
Validation Data



Western blot analysis of extracts of 293T and transfected 293T-S1（His-tag), using SARS-CoV-2 Spike Rabbit pAb (A20137) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

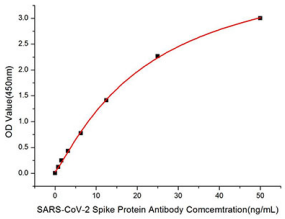


Western blot analysis of extracts of 293T and transfected 293T-S ECD（His-tag), using SARS-CoV-2 Spike Rabbit pAb (A20137) at 1:1000 dilution.
Lysates/proteins: 25μg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

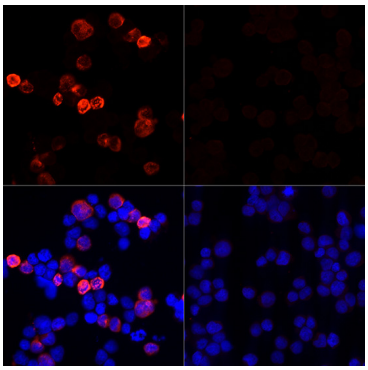


Immunoprecipitation analysis of 300 μg extracts of 293T cells using 3 μg SARS-CoV-2 Spike antibody (A20137). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike antibody (A20137) at a dilution of 1:1000.

Validation Data



Immobilized Recombinant SARS-COV-2 S1+S2 ECD(S-ECD) Protein (RP01283) at 1μg/mL (100μL/well) can bind SARS-CoV-2 Spike Rabbit pAb (A20137) with a linear range of 0.78-50ng/mL.



Immunofluorescence analysis of 293T cells transfected with SARS-CoV-2 Spike protein and untreated 293T cells use SARS-CoV-2 Spike Rabbit pAb (A20137) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.