A20136

Leader in Biomolecular Solutions for Life Science

www.abclonal.com

SARS-CoV-2 Spike S1 Rabbit pAb

Catalog No.: A20136 5 Publications

Basic Information

Observed MW
110kDa

Calculated MW
141kDa

Category
Polyclonal Antibody

Applications
WB,IF/ICC,IP,ELISA

Cross-Reactivity
Human,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
IF/ICC	1:100 - 1:500
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	1:20000-1:80000

Immunogen Information

Gene ID
43740568

Swiss Prot
P0DTC2

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
spike glycoprotein; SARS-CoV-2 Spike S1

Contact

www.abclonal.com

Product Information

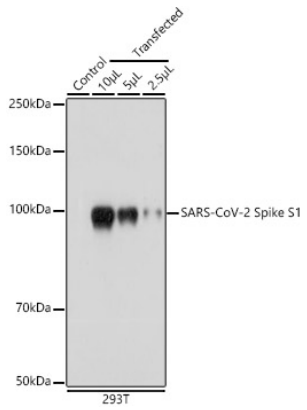
Source
Rabbit

Isotype
IgG

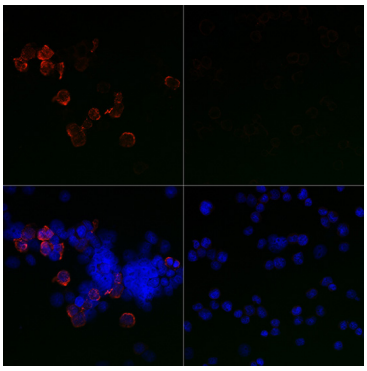
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,50% glycerol,pH7.3.

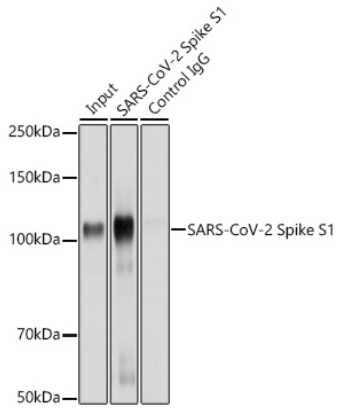
Validation Data



Western blot analysis of lysates from 293T cells, using SARS-CoV-2 Spike S1 Rabbit pAb (A20136) 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.

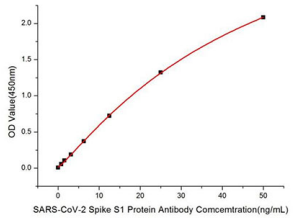


Immunofluorescence analysis of 293T cells transfected with SARS-CoV-2 Spike S1 fusion protein (top left) and untreated 293T cells (top right) use SARS-CoV-2 Spike S1 Rabbit pAb (A20136) at dilution of 1:400 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300 μg extracts of 293T cells using 3 μg SARS-CoV-2 Spike S1 antibody (A20136). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Spike S1 antibody (A20136) at a dilution of 1:10000.

Validation Data



Immobilized Recombinant SARS-COV-2 Spike S1 Protein (RP01262LQ) at 1μg/mL (100μL/well) can bind SARS-CoV-2 Spike S1 Rabbit pAb (A20136) with a linear range of 0.78-50ng/mL.