

SARS-CoV-2 Nucleoprotein Rabbit pAb

Catalog No.: A18797 **7 Publications**

Basic Information

Observed MW

50kDa

Calculated MW

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 nucleocapsid phosphoprotein is a structural protein that binds to, protects the viral RNA genome and is involved in packaging the RNA into virus particles. The N protein has been suggested as an antiviral drug target.

Recommended Dilutions

WB 1:500 - 1:2000

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.

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Immunogen Information

Gene ID

43740575

Swiss Prot

Immunogen

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

Synonyms

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

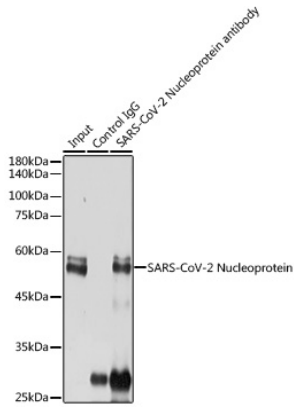
Storage

Store at -20°C. Avoid freeze / thaw cycles.

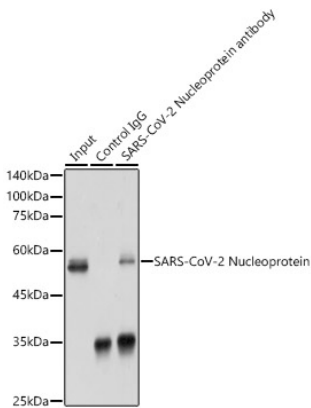
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data

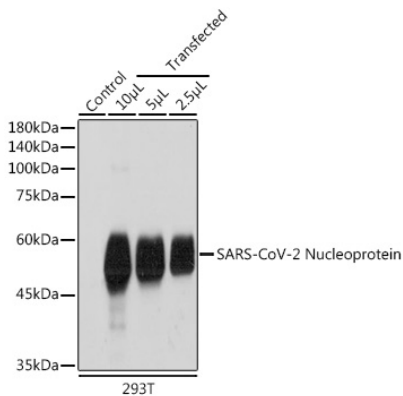
Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Nucleoprotein antibody (A18797). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Nucleoprotein antibody (A18797) at a dilution of 1:1000.



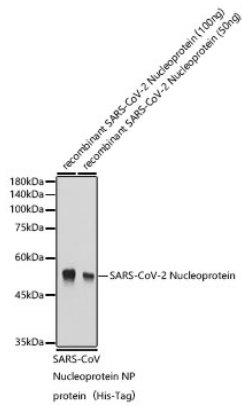
Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Nucleoprotein antibody (A18797). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Nucleoprotein antibody (A18797) at a dilution of 1:3000.



Western blot analysis of extracts of normal 293T cells and 293T transfected with Nucleoprotein, using SARS-CoV-2 Nucleoprotein Rabbit pAb (A18797) 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.



Validation Data



Western blot analysis of Recombinant SARS-CoV-2 Nucleocapsid Protein (RP01264LQ) using SARS-CoV-2 Nucleoprotein Rabbit pAb (A18797) at 1:1000 dilution.

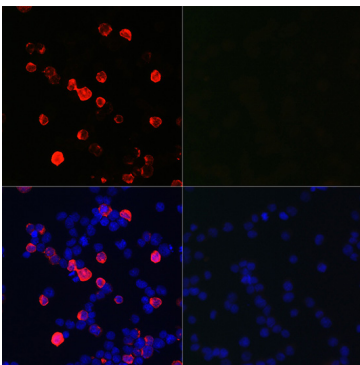
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 100ng/50ng per lane.

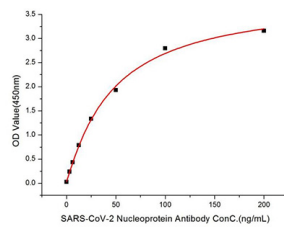
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



Immunofluorescence analysis of 293T-N and 293T cells using SARS-CoV-2 Nucleoprotein Rabbit pAb (A18797) 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.



Immobilized Recombinant SARS-COV-2 Nucleocapsid (RP01264) at 1 μ g/mL (100 μ L/well) can bind SARS-CoV-2 Nucleoprotein Antibody (A18797) with a linear range of 3.12-200ng/mL.