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# SARS-CoV-2 Nucleoprotein Rabbit pAb

**Catalog No.: A18797** **5 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. |

## Immunogen Information

**Gene ID**
43740575

**Swiss Prot**

**Immunogen**
Recombinant fusion protein containing a sequence corresponding to amino acids 1-419 of coronavirus Nucleoprotein (P0DTC9).

**Synonyms**

## Product Information

**Source**
Rabbit

**Isotype**
IgG

**Purification**
Affinity purification

**Storage**
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.

## Contact


400-999-6126

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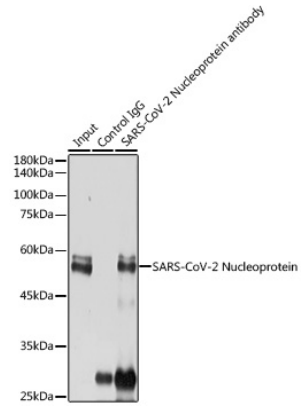
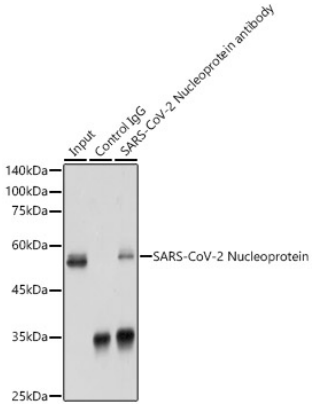
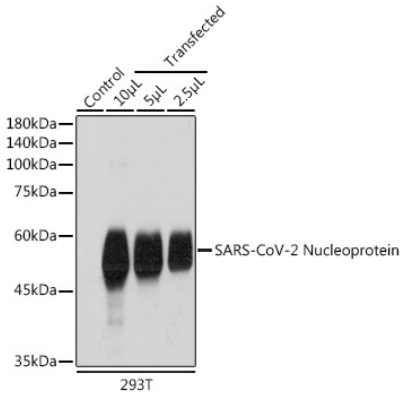
## Validation Data




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.

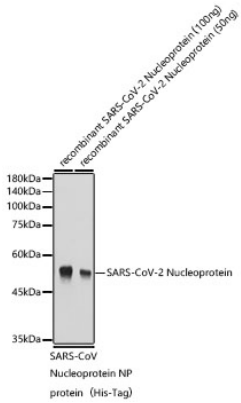



Immunoprecipitation analysis of 300 µg extracts of 293T cells using 3 µg SARS-CoV-2 Nucleoprotein antibody (A18797). Western blot was performed from the immunoprecipitate using SARS-CoV-2 Nucleoprotein antibody (A18797) at a dilution of 1:3000.

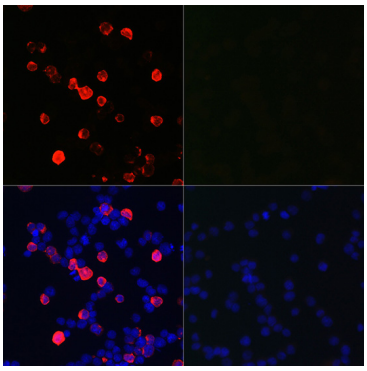



Western blot analysis of extracts of normal 293T cells and 293T transfected with Nucleoprotein,using SARS-CoV-2 Nucleoprotein Rabbit pAb (A18797) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

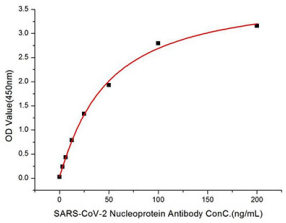
## Validation Data




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 1μg/mL (100μL/well) can bind SARS-CoV-2 Nucleoprotein Antibody (A18797) with a linear range of 3.12-200ng/mL.