

A18797

Leader in Biomolecular Solutions for Life Science



# SARS-CoV-2 Nucleoprotein Rabbit pAb

Catalog No.: A18797 **6 Publications**

## Basic Information

### Observed MW

50kDa

### Calculated MW

### Category

Polyclonal Antibody

### Applications

WB,IF/ICC,IP,ELISA,DB

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

### Synonyms

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

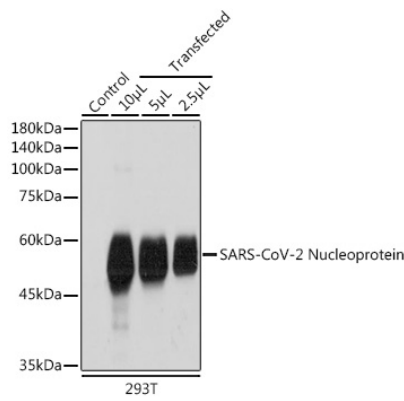
Store at -20°C. Avoid freeze / thaw cycles.

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

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Validation Data



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.

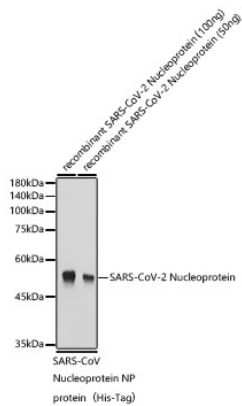
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 1s.



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

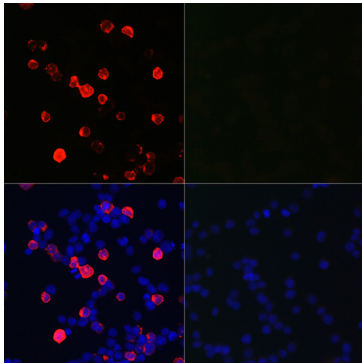
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

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

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

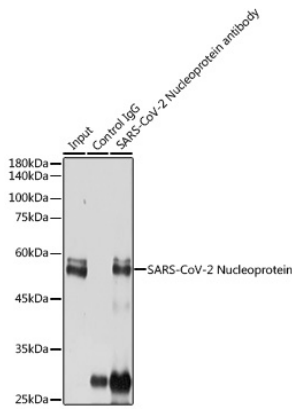
Exposure time: 1s.



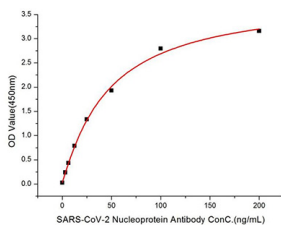
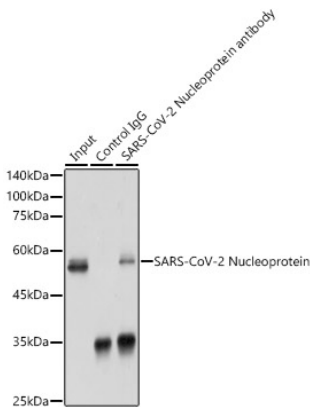
Immunofluorescence analysis of 293T-N and 293T cells using SARS-CoV-2 Nucleoprotein Rabbit pAb (A18797) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

## 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.



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