

For Research Use Only

# SARS-CoV-2 Nucleocapsid Phosphoprotein Recombinant antibody

Catalog Number:80026-1-RR



## Basic Information

<b>Catalog Number:</b> 80026-1-RR	<b>GenBank Accession Number:</b> NC_045512	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 43740575	<b>CloneNo.:</b> 4B9
<b>Source:</b> Rabbit	<b>Full Name:</b> COVID-19 N Protein	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG		
<b>Immunogen Catalog Number:</b> AG30676		

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Eukaryotic nucleocapsid phosphoprotein, Recombinant protein
<b>Species Specificity:</b> virus, recombinant protein	

## Background Information

The nucleocapsid (N) protein has multiple functions including formation of nucleocapsids, signal transduction virus budding, RNA replication, and mRNA transcription. N protein is an important antigen for coronavirus, and it is normally highly conserved, with a molecular weight of about 50 kDa. it can be used as a marker in diagnostic assays due to its high immunogenicity (PMID: 32416961, PMID: 32235387). A sandwich ELISA for COVID-19 N Protein can be assembled by using 80027-1-RR as capture antibody and conjugated 80026-1-RR for detection.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

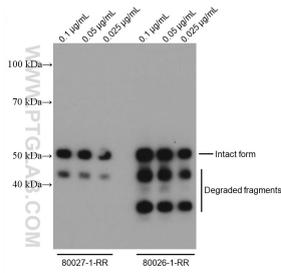
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

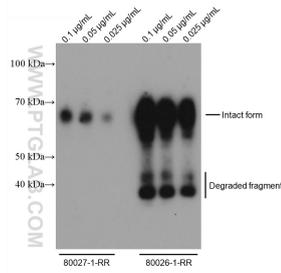
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

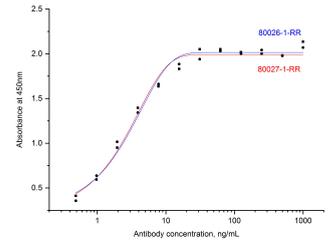
## Selected Validation Data



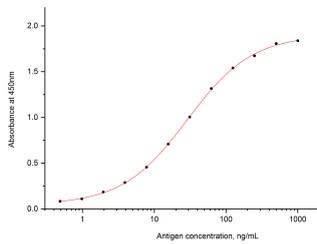
E.coli expressed SARS-CoV-2 Nucleocapsid Phosphoprotein (Cat.NO. Ag30676) was subjected to SDS-PAGE followed by western blot with 80027-1-RR and 80026-1-RR at various work concentration.



Eukaryotic expressed SARS-CoV-2 Nucleocapsid Phosphoprotein was subjected to SDS-PAGE followed by western blot with 80027-1-RR and 80026-1-RR at various work concentration.



Indirect ELISA was carried out by coating eukaryotic expressed N protein at 70 ng/well followed by blocking and adding serial diluted primary antibody 80026-1-RR and 80027-1-RR respectively. Signal was developed with TMB and stopped by H<sub>2</sub>SO<sub>4</sub>. Signal strength was measured by absorbance at 450 nm.



Sandwich ELISA was carried out by coating 80027-1-RR at 80 ng/well followed by blocking and adding different concentration of eukaryotic expressed N protein (0.5-1000 ng/mL). HRP-conjugated 80026-1-RR was used at 1 µg/mL for detection. Signal was developed with TMB and stopped by H<sub>2</sub>SO<sub>4</sub>. Signal strength was measured by absorbance at 450 nm.