

For Research Use Only

Virus SARS-CoV-2 Nucleocapsid Phosphoprotein Recombinant antibody, PBS Only

Catalog Number: 80027-1-PBS



Basic Information

Catalog Number: 80027-1-PBS	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 100ug, Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 43740575	CloneNo.: 8C20
Source: Rabbit	Full Name: COVID-19 N Protein	
Isotype: IgG		
Immunogen Catalog Number: AG30676		

Applications

Tested Applications:
WB, ELISA, Indirect ELISA

Species Specificity:
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

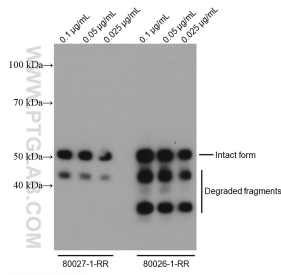
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

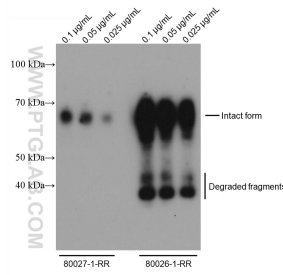
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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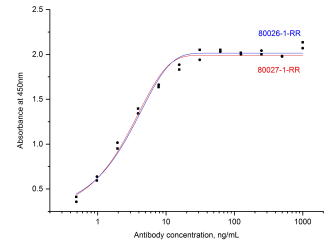
Selected Validation Data



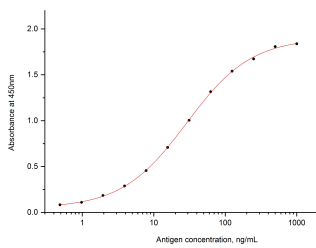
E.coli expressed SARS-CoV-2 Nucleocapsid Phosphoprotein (Cat.NO. Ag30676) was subjected to SDS-PAGE followed by western blot with 80027-1-RR and 80026-1-RR at various work concentration. This data was developed using the same antibody clone with 80027-1-PBS in a different storage buffer formulation.



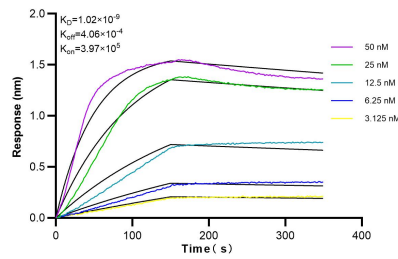
Eukaryotic expressed SARS-CoV-2 Nucleocapsid Phosphoprotein was subjected to SDS-PAGE followed by western blot with 80027-1-RR and 80026-1-RR at various work concentration. This data was developed using the same antibody clone with 80027-1-PBS in a different storage buffer formulation.



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 H₂SO₄. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 80027-1-PBS in a different storage buffer formulation.



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 H₂SO₄. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 80027-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 80027-1-RR against SARS-CoV-2 Nucleocapsid Phosphoprotein were performed. The affinity constant is 1.02 nM.