

For Research Use Only

# SARS-CoV-2 Nucleocapsid Phosphoprotein Monoclonal antibody

Catalog Number: 67666-1-Ig **3 Publications**



## Basic Information

Catalog Number: 67666-1-Ig	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 43740575	CloneNo.: 1B3C3
Source: Mouse	Full Name: COVID-19 N Protein	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1		
Immunogen Catalog Number: AG30676		

## Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Ag30676,
Species Specificity: Virus	
Cited Species: mouse	

## 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). 67666-1-Ig can be used as capture antibody. 67666-2-Ig can be used as detection antibody.

## Notable Publications

Author	Pubmed ID	Journal	Application
Marina Pribanić Matešić	35216036	Viruses	
I Novodchuk	35512584	Biosens Bioelectron	
Zhaohuan Wang	39287388	J Virol	

## Storage

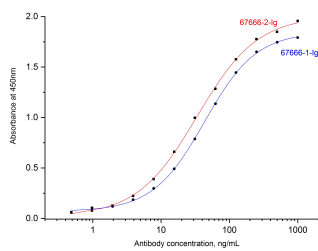
Storage:  
Store at -20°C.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

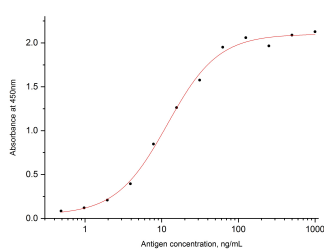
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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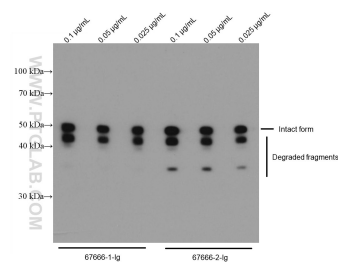
## Selected Validation Data



Indirect ELISA was carried out by coating eukaryotic expressed N protein at 70 ng/well followed by blocking and adding serial diluted primary antibody 67666-1-Ig and 67666-2-Ig 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 67666-1-Ig at 80 ng/well followed by blocking and adding different concentration of eukaryotic expressed N protein (0.5-1000 ng/mL). HRP-conjugated clone 67666-2-Ig 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.



E.coli expressed SARS-CoV-2 Nucleocapsid Phosphoprotein (Cat.NO. Ag30676) was subjected to SDS-PAGE followed by western blot with 67666-1-Ig and 67666-2-Ig at various work concentration.