For Research Use Only

SARS-CoV-2 Nucleocapsid Phosphoprotein Monoclonal antibody

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Antibodies | ELISA kits | Proteins
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Catalog Number:67666-1-Ig 2 Publications

Basic Information

Catalog Number:
67666-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG30676

GenBank Accession Number:
NC_045512

GeneID (NCBI):
43740575

Full Name:
COVID-19 N Protein

Purification Method:
Protein A purification

CloneNo.:
1B3C3

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB,ELISA

Species Specificity:
Virus

Cited Species:
mouse

Positive Controls:

WB : Ag30676,

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.

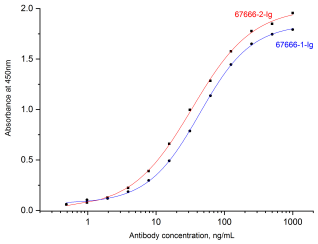
Notable Publications

Author	Pubmed ID	Journal	Application
Marina Pribanić Matešić	35216036	Viruses	
I Novodchuk	35512584	Biosens Bioelectron	

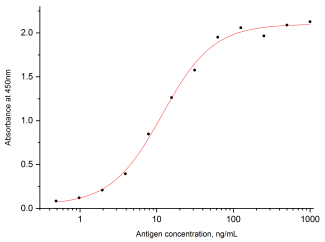
Storage

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

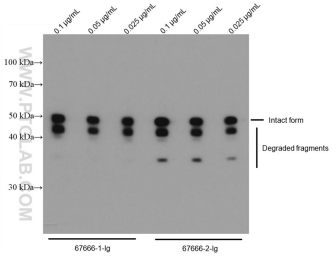
Selected Validation Data



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 H2SO4. 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 H2SO4. 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.