

For Research Use Only



Virus SARS-CoV-2 Nucleocapsid Phosphoprotein Monoclonal antibody, PBS Only (Detector)

Catalog Number: **67666-2-PBS**

Basic Information

Catalog Number: 67666-2-PBS	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 1mg/ml	GeneID (NCBI): 43740575	CloneNo.: 6D10E2
Source: Mouse	Full Name: COVID-19 N Protein	
Isotype: IgG2b		
Immunogen Catalog Number: AG30676		

Applications

Tested Applications:
WB, ELISA, Sandwich ELISA, Indirect ELISA

Species Specificity:
Virus

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.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

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

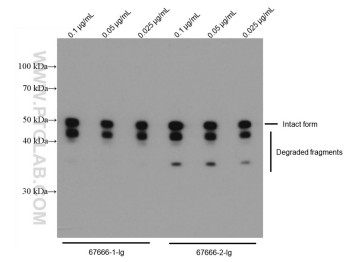
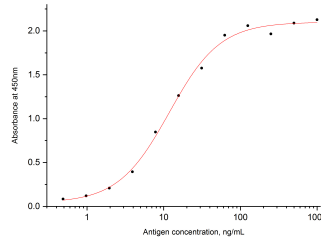
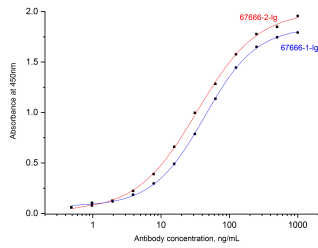
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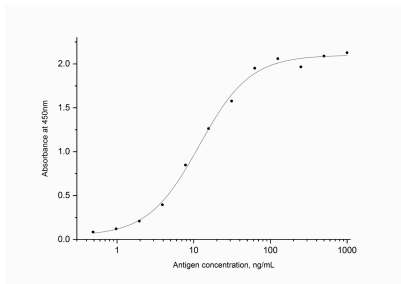
Selected Validation Data



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 H₂SO₄. Signal strength was measured by absorbance at 450 nm. This data was developed using the same antibody clone with 67666-2-PBS in a different storage buffer formulation.

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. This data was developed using the same antibody clone with 67666-2-PBS in a different storage buffer formulation.

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. This data was developed using the same antibody clone with 67666-2-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50061-1, Virus 2019-nCoV nucleocapsid phosphoprotein Monoclonal Matched Antibody Pair - BSA and Azide free. Capture antibody: 67666-1-PBS. Detection antibody: HRP-conjugated 67666-2-PBS. Standard: Ag30676. Range: 0.5-20 ng/mL.