

For Research Use Only



SARS-CoV-2 Nucleocapsid Phosphoprotein Monoclonal antibody

Catalog Number: 67666-1-Ig **2 Publications**

Basic Information

| | | |
|---|--|--|
| Catalog Number: 67666-1-Ig | GenBank Accession Number: NC_045512 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 1000 µg/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 | |

Storage

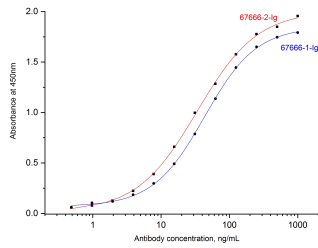
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

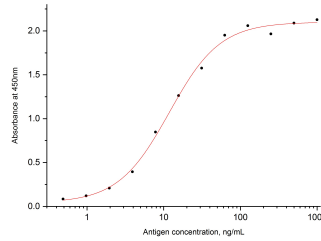
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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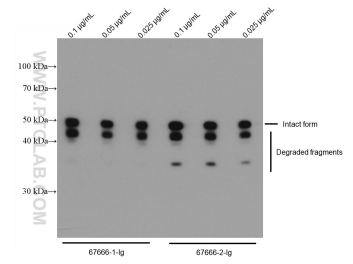
Selected Validation Data



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.



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.