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Bhubaneswar, Odisha - 751024, INDIA

## 10-10033: Monoclonal Antibody to SARS-CoV-2 nucleocapsid Protein (Clone: ABM3F2.1C1)

Clone Name: Monoclonal
Clone Name: ABM3F2.1C1
Application: ELISA,WB

Gene: N

 Gene ID:
 43740575

 Uniprot ID:
 P0DTC9

 Format:
 Purified

**Isotype:** Mouse IgG2b, Kappa

Immunogen Information : Full length recombinant SARS-CoV-2 nucleocapsid protein was used as the immunogen for this

antibody.

## **Description**

The structural nucleocapsid (N) protein of nCoV/SARS-CoV-2/COVID-19 is a predicted 46 kDa phosphoprotein having 419 amino acid residues. A short Serine rich stretch and a recognized nuclear localization signal are the unique features of the nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19, which seems to have a little homology with the proteins of other members of this large corona virus family. These features also suggest the involvement of nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19 in different stages of viral lifecycle. The protein has multifaceted activities including packing of the nCoV/SARS-CoV-2/COVID-19 viral genome into a helical ribonucleocapsid (RNP) and playing an important role in viral self-assembly causing nCoV/SARS-CoV-2/COVID-19. The nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19 also forms dimer in the cell by self-association with the help of interactive C terminal domain.

"This product was developed using BIRAC financial assistance project reference no. BT/COVID0062/02/20"

## **Product Info**

**Amount :**  $25 \mu g / 100 \mu g$ 

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

Storage condition:

Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Recommended dilutions: WB: 0.1-1  $\mu$ g/ml, ELISA: 1  $\mu$ g/ml. However, this need to be optimized based on the research applications.



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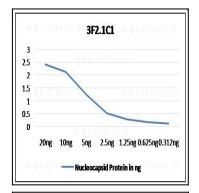


Figure-1: An indirect ELISA is carried out by coating nucleocapsid protein in serial dilution from 20 ng to 0.312 ng and using 100 ng of purified monoclonal antibodies 3F2.1C1. Peroxidase conjugated Goat-Anti mouse antibody was used at 1:5000 dilution.

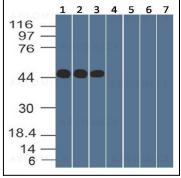


Figure-2: Western Blot analysis: The purified antibodies 3F2.1C1 was tested on Nucleocapsid Recombinant protein at different concentrations, 0.1 (lane 1), 0.5 (lane 2), and 1.0  $\mu$ g/ml (lane 3), (4) RBD protein, (5) unrelated protein 1 ,(6) unrelated protein 2, (7) unrelated protein 3, to detect the specific binding. 25 ng of proteins was loaded per lane.